

Eitzen Derby July 4th, 2020

Full Size Truck Build Rules

1st \$1500 2nd \$700 3rd \$300

Questions call: Nick Schaller 507-993-1295

General

- Pre-registration \$50
 - Ends June 30th, 2020
- Day of registration \$65
- Must be 14 or older
 - Under 18 need parent or guardian signature; parent or guardian MUST be present
- Registration will begin at 9:00 am
- All drivers and crew members must attend the drivers meeting held at 1:45 pm
- Show will start at 2:00 pm
- If truck does not pass inspection and/or driver is unwilling or unable to change truck to pass inspection, entry fee will not be reimbursed
- Absolutely no additional welding to body or frame other than what's in the rules
- All rules will be followed, or you will not run

Vehicles allowed

- Any domestic ½ ton and ¾ ton trucks, SUVs and full size vans
 - Crew cabs, Suburban, Excursions, etc. are allowed
- NO one ton truck frames
- Any engine is allowed
- Any transmission is allowed
- 2 wheel drive only

Personal protective equipment

- Must have working seat belt
- Must have a full face helmet
- Clear or tinted safety glasses
- Fire resistant long sleeve clothing is recommended
- Long sleeve shirts, no t-shirts
- Closed toe shoes are required
- Long pants are required, no shorts

Fuel cell

- Must use a metal fuel cell
 - If you use a plastic fuel tank, it must be inside of a metal box
 - No plastic fuel cans
 - All lines and connections must be safe and tight
 - Trucks must have fuel cell mounted centered in the front of bed, or in the center of the back seat area of a crew cab
 - SUVs and full size vans must have fuel cell mounted in the center of the back seat area
- Fuel cells must be securely mounted
 - Any unsafe fuel setups will not run, officials decisions are final
- Stock fuel tanks must be removed

Safety Cage

- 4 point cage is recommended for this class, dash bar and seat bar, with connecting door bars
- 2 down bars to the top of frame or body per side
 - 6" or smaller material only
 - Must be within the inside door seams only
 - Must be vertical, do not angle forward or back
- Dash bar
 - No bigger than 6" tubing
 - Required if the dash is removed
 - Shall not be up against the firewall bulkhead
- Seat bar
 - Required to run
 - Mounted to door posts behind front seat
 - No bigger than 6" tubing
 - Must be no further than 12" from back of seat
 - This will be measured from back of seat to back side of seat bar
 - Must be at least 12" above the floor
- Door bars
 - May be up to 8" channel
 - Must connect to all bars being used for the cage
 - Must not extend forward past firewall bulkhead
 - Must remain inside the cab of trucks
 - Must not extend past where the wheel wells start for SUVs and full size vans
- Rollover bars
 - May go over cab and down through windshield to dash bar
 - May extend down to floor or frame
 - Will count as two of your allowed down bars

- Fuel cell protector
 - Highly recommended
 - Mounted to the rear of the seat bar protector off of seat bar centered in the vehicle
 - If you have a fuel tank protector, your tank must mount to it, you may not bolt tank to floor and have a protector around it
 - SUVs, full size vans, and crew cabs may have a fuel cell protector off of seat bar
 - No wider than 30" and must be at least 4" off all sheet metal
 - Cannot be used to brace anything
 - Trucks may have fuel cell in front of box with protector, nothing excessive
 - You may build a loop off of this protector no more than 4" taller than the tank and may gusset to seat bar or vertical bars of rollover loop
- Battery protector
 - Up to 2 batteries may be used
 - Must be safely mounted in the front passenger area
 - Must be protected
 - Nothing excessive and cannot strengthen the vehicle

NOTE: the cage is for personal safety, not intended to strengthen the vehicle

Body

- Must remain stock unless stated in the rules
- All glass, plastic and chrome trim must be removed, if it could get peeled off and litter the track, take it off ahead of time, don't make me tell you to take it off
- All interior must be removed, except driver's seat
- Inner fenders may be trimmed, and bolted to fenders, no welding
 - No more than 10, 3/8" bolts per fender, 2" washers max
- Windshield bar or mesh is required for safety
- Must have a 12"x12" roof sign with your number clearly visible
- Must have your number on the side of your truck with your number clearly visible
- Body creasing, shaping, pre-bending is allowed
- Body mounts may be replaced with all thread
 - 1" threaded rod max
 - May be welded to frame or bolted through top as factory
 - Washers may be no bigger than 6"x6" by 1/4" thick
 - Trucks
 - May have 8 body mounts max for the box
 - May have 6 body mounts max for the cab
 - May have only 2 core support mounts
 - SUVs and full size vans
 - May have 12 body mounts (not including core support)
 - May have only 2 core support mounts

- Must have at least a 1" spacer between body and frame
 - No larger than 3" diameter
 - Must not be welded to frame or body
- Core support
 - Spacer may be up to 6" tall
 - No larger than 3" diameter
 - May be welded to top of front body mount on frame OR bottom of core support, not both
- Doors
 - Must be secured shut in ONE of the following ways
 - Tight chain or wired 3 times per vertical door seam
 - Weld 5", skip 5", weld 5", skip 5" ect.
 - All welding must be on the outside, sheet metal to sheet metal
 - 3" wide strap max
 - Driver's door may be welded solid for drivers safety
- Hood
 - Must be open for inspection
 - Must have a 12" hole cut in case of fire
 - May bolt or weld angle iron to fenders and hood and bolt them together
 - Up to 2" angle may be used, and up to 5" long
 - May be tied down in up to 8 total locations using wire, chains or bolts
 - No less than 4 spots, factory hinges do not count
 - 2 may be the core support bolts, as previously stated, and may be welded to frame
 - 2 washers not larger than 6" may be welded to top of core support to hold bolts in place
 - Must go straight down
 - 6"x6" by ¼" thick hood washers max
 - Hood skins may be bolted together with 12, 3/8" bolts
 - 2" washers max
- Truck boxes
 - May be welded OR bolted to the cab
 - Welded on the outside only with up to 4" wide strap
 - Bolted with up to 8 bolts
 - 1" bolts max
 - 4"x4" washers max
 - Cannot be wedged

- Tailgate
 - May be welded, wired or chained shut
 - May weld inside with 2" angle iron and outside with 3" strap
 - May have 2 wire chains per vertical seam, and 4 horizontal to box, 8 total
 - If you are not running a rear bumper, you must lower and weld tailgate to ends of frame with no added metal
 - No threaded rod allowed for tailgate

Frame

- Absolutely no additional welding to frame other than what is stated in the rules
- No trailer hitches, must remove mounting brackets completely
- No stuffing metal in frames
- 4 fix-it plates TOTAL, 4"x6" ¼" MAX, nothing larger
 - 2 per frame rail

Bumpers

- Bumpers are interchangeable with car bumpers
 - May be loaded, seam welded, and have vents and ends capped
- Manufactured bumpers are allowed
 - May have a 4" point tapering out over no less than 30"
 - May be no more than 8" from back of bumper to tip of point
 - A factory bumper skin may be welded on
 - may not be manipulated to increase point in any way
- Bumpers may be chained, wired or welded to body in 4 spots
 - If welding you may use up to 3" wide material and may weld no more than 4" onto body
 - May use a 3" bracket to hold bumper on
 - The bracket may not extend any further than 3" from back of bumper, 3/8" thick max
- Maximum bumper height is 30" to top for front and rear bumpers
- Minimum of 18" to top for front and rear bumpers
 - All frame rails must be covered, bumper or tailgate

Steering / Suspension

- Stock springs only, leafs and coils
 - No restacking leafs
 - No coil to leaf conversion
- 6 spring clamps per pack are allowed
 - 3 in front of axle and 3 to rear of axle

- For coil springs, you may weld up to a ¾" bolt to frame at spring pocket and bring through a-arm to hold a-arm down
 - No more than 2" may be welded to the frame
- Spring perches may be bolted or welded to frame in factory locations only
 - Factory spring perches ONLY
- All steering must remain stock
 - Aftermarket steering columns are allowed
 - Tie rods may be reinforced

Tires

- Any tire allowed (Ag, forklift, stuffed, foamed, doubled, fluid filled tires ect.)
- No wheel weights or studded tires
- No split rims
- Rims may be full centered with bead protectors
- No outside beadlocks
- Tires may be screwed to rims

Drivetrain

- Engine
 - NO full cradles, distributor protectors or mid-plates
 - May use lower cradles with pulley protectors, front plate, and carb halo
 - Pulley protector may not be used to reinforce
 - Pulley protector cannot touch sway bar
 - Carb halos cannot be used as a brace, only to protect carburetor
 - Motor mounts may be welded to engine cradle
 - After market manufactured mounts are allowed
 - Cannot attach to frame anywhere
 - Engines must mount in factory location only
 - Trucks without engine cross-members in them may build one
 - 6" C channel or 6"x2" tube
 - This may be bolted or welded to frame directly over front axle
 - This is for mounting purposes only and may not act as a brace or gusset in any way
 - May run 2 chains or wires from motor to frame as a secondary hold down
 - Only 1 link may be welded to frame per chain
 - 3/8" chain max
 - No excessive welds

- Must run radiator and be in factory location or looped hoses
 - Homemade radiators are allowed but be no more than ¼" thick
 - Must not strengthen in any way
 - Bolt, wire or ratchet strap only
 - 6, ½" bolts only
 - Up to 2" washers
 - Absolutely no welding
 - If running factory style radiator, may use up to ¼" thick protector
 - Must not strengthen in any way
 - Must not be larger than radiator
 - Bolt, wire or ratchet strap only
 - 6, ½" bolts only
 - Up to 2" washers
 - Absolutely no welding
- Switch panels are allowed
- Any fuel system and ignition system allowed
 - Electric fuel pump must be wired with ignition to shut off with the engine
- Transmission
 - NO steel bells, steel tails, or transmission braces
 - Aluminum bells are allowed
 - Steel bell may be used on manuals only for protection from clutch failure
 - This may not strengthen truck in any way
 - Transmission Oil Coolers are allowed but must be safe and securely mounted in a safe location
 - Slider drive shafts are allowed
 - Any shifter is allowed
- Differential
 - Any 8 lug or less rear end may be used
 - May be chained to frame in one spot per side
 - 3/8" chain max
 - May weld 1 link to frame go around axle and weld one link to frame
 - Links may not act as bracing or gussets in any way

Brakes

- Must have working brakes at the start of show
- Pinion brakes are allowed but must not strengthen truck
- Bolt in pedal setups are allowed but cannot strengthen truck

Appearance

- Trucks may be painted and decorated with the interest of good taste in mind
- No profanity anywhere on the truck
- No inappropriate slogans or logos

NOTE: Keep in mind children will be attending this event

- Trucks will be impounded after tech and lined up in staging area so they are ready to go once track is clear. This is to keep show rolling and limit hazards in the pits.
- No frame welding or modifications other than what is stated in rules.

Anything more than what is in the rules will be cut. I will do my best to work with people on builds and try to give every truck a chance to come and compete. Feel free to call or text me if you have questions, concerns or want clarifications of the rules.

Nick Schaller 507-993-1295