



# Dakota County Fair Demolition Derby

## Limited Weld Truck Rules

1/2 – 3/4-ton American made pickup, ext, crew cabs, suburban's are allowed, . Frames must remain stock and not shortened or altered in any way. shortening front or rear frame horns is not allowed. ANY QUESTIONS: 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 wires may go from core support to bumper, U 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), u will also be allowed a 5x5 inch washer welded to top of core support for hood pins to go through to hold in position, other 4 locations up to 1in. max hood pins, wires, or chain must go from sheet metal to sheet metal only, - hood washers no larger than 5x5 inches ¼ thick, hood pins must be straight up and down 1'. max length. U may use 4 3/8 bolts each hole to bolt hood skin together hood openings around stacks. MUST have two window bars no larger than 3" diameter or 2 #9 wires in windshield opening to prevent hood from entering drivers compartment for driver's safety.

**DOORS** may be chained two locations per seam or welded 24" of total weld outside only (1/4 In. strap no wider than 2") each chain or wire location will count as 4" of weld. Drivers 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 sides plus an additional 12" of weld or 4 chains on bottom of tail-gate to box (not bumper). Tail-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 not 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.

**BUMPERS** Front and rear bumpers may be changed to a seam welded, loaded car bumper, (rear bumper must remain flat) no adding bumper brackets to frame. If u choose not to install a factory car bumper u 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 on front side). Bumpers may be welded to frame plus added 2x2 inch wide ¼ 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.

**TIRES** Any ply tire allowed, stuffed, skid, ag ok, split rims allowed but ring must be fully welded. Uni-lug wheel centers 9" max. diameter may be used, no bead locks or full centers. 1 inch wide "lip" protectors will be allowed on rims.

**SUSPENSION** Front axle non-leaf-spring trucks may install 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 leafs, u 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 3/8 chain. 1/2 ton may swap to 3/4-ton rear ends, may be welded posi-traction, no bracing on rear ends.

**ENGINE/TRANS** May crossbreed engines and transmissions, No adding engine cradles or extra braces 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 2x6 1/4 inch thick tube max, you will be allowed to have a piece of the 2x6 tube 6 inches long welded or bolted in the c channel part of the frame, from there you can weld the 2x6 tube straight across off those peices. 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 a brace or support for lower engine cradle or any other part of drivetrain or suspension, in addition to the cross member you will be allowed to box frame from front frame horns to this cross member. Max thickness on plate will be 3/16, no internal reinforcement behind plate. Must have inspection hole in frame capping. Do not use firewall as a brace. May have 2 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 2 bolts not welded. Trans coolers 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. Dist. protectors, trans. Protectors, steel ultra-bells, steel tail shafts will not be allowed. Aluminum ultrabells will be allowed. Any driveshaft may be used, sliders ok. No radi-barrels must use a radiator in factory location, or loop hoses.

**BODY BOLTS** Trucks may have 8 locations of chains, bolts or U-bolts to secure box to frame, cab 6, and core support 2, (suburban's, SUVs, may only use 10 total throughout cabin compartment and 2 at core support) 1" diameter max size bolts with plate size no larger than 1/4" thick x 8" square) bolts may be bolted through top of frame like factory or may weld to outside of frame, do not pin frame. In addition, u may leave original body mounts in factory location but must remain 100% stock rubbers included, if removed and bolted solid u loose option to use extra factory location. **BOX** Roll over bar (strongly recommended) mounted 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 interior cage components. Box may be bolted to cab in 4 locations 1" bolt size 5x5 plates **AND** may weld 12" of strap per side (24 total) to weld cab and box together. U will be allowed one location to wire box side to

box side location of choice- cannot go to or around frame (4 strands of wire max, no chains) . No folding box-sides over to create a wedge, may bolt fenders with 6 -3/8 bolts to bolt fenders together 2" washers max. threads must point inward. Outside fender creasing is allowed. CAGE MANDATORY= Must run a bar behind seat (no 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 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. U may attach a rollover bar from seat bar up to or 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" diameter max. on cage material, only attached to cab, floor, or body mount plate not directly to frame. Suburban's, SUVs may attach a floating gas tank protector off seat bar 24x24 protector must remain 4 inches away from any sheet metal. These are the only internal cage components allowed.

**BATTERY/GAS TANK** 2 battery's max. allowed on pass floor, properly mounted and covered, NO BUNGE STRAPS!! Gas tank must be removed, and one relocated in front of box, 8 gal. max. May use electric fuel pumps if well labeled (FUEL SHUT OFF).

**FRAME** If frame bent, may plate 1" past bend both directions 1/4 in thick one side of frame only. if long area over 6" is bent please call ahead for authorization, there will be a max of ten plates on a truck. MISC. Stock steering components, may alter steering shaft from box to steering wheel, tie rods may be reinforced in center. Shifter may be altered, ign. and starter wires may be altered.

Any questions contact Mike Tix (651)-248-8499