

Light Build Full Size Truck Rules

Polk County Fair – St Croix Falls

General

1. No year limit
2. ½ & ¾ ton trucks only
3. 4 door trucks allowed (see cab section for details)
4. Frame swaps allowed. If frame is questioned, driver must prove it fits within the rules
5. 4 X 4 trucks must have no power to the front wheels
6. No adding or moving stock cross members except as follows.
 - a. If you need to, you can remove your stock transmission cross member and substitute a piece of C channel. Only welded or bolted along the bottom of the frame rail
 - b. You can add a support to hold your radiator/radibarrel. 3" channel maximum. Only connected to frame. Must be directly under radiator/radibarrel. This is not intended to be a crossmember to support the frame rails.

Frame Repairs

1. You are allowed a total of 8 frame bent/kink repairs no more.
 - a. Each fix must be 4" apart
 - b. You cannot sandwich the frame with steel at a bend. Choose to either fix it on the outside or the inside.
 - c. Material can only extend past the bend/kink by 2 inches
 - d. Material can only be ¼" thick

Drive Train

1. Engine and transmission swaps allowed
2. Rim diameters must be between 15-16.5"
3. Full weld in center allowed
4. Rear differentials can be swapped but must be in a stock form. No braced rear ends
5. Aftermarket gas pedals, shifters, sliders, brake pedals, etc. are allowed
6. Lower engine cradles allowed. Welded or bolted but not both.
 - a. Lower cradle made from plate steel only. No front plate, no pullet protector, no mid plates, no tube reinforcing cradle
 - b. Lower cradle cannot attach to cylinder heads or cylinder head bolts
 - c. Lower cradle attaches to engine at factory engine location and does not wrap around front of engine
7. Cradle, if bolted in, must be bolted within the stock location. Only using 2 bolts.
8. Cradle can also just be welded in. using flat stock, square tube, etc., but must still only use 12" of total weld connecting it to your frame. Welded only between front pulleys and carburetor.

9. If not using lower cradle, you may bolt in factory mounts, along with welding engine down. You may weld between front pulleys and carburetor. Cannot bridge from side to side or go over the engine. Must not have more than 12" total weld connecting to frame.
10. Transmission bracing & aftermarket bell housings are allowed. If you use one of these, you cannot bolt or weld your transmission to a cross member. It must be floating on top of your cross member.
11. You can only mount your transmission to the cross member if it is in stock form, with no bracing or aftermarket bell housings. Must be bolted or welded in a stock manner. (Single location)

Suspension

1. Front bumper must be between 24-30" off the ground. Measured from the top of the bumper.
2. Rear frame cap also must be 24-30" off the ground. Measured from the top of the cap.
3. Front suspension can be welded to obtain height.
4. Tube steel can be used to weld your suspension up. (2" max) Must stay vertical and have no gussets.
5. If leaf springs are used, you are not allowed to add or stack front leaf springs.
6. Allowed 6 clamps per leaf pack

Front of Truck

1. Front bumper can be no bigger than 4x4" tubing. No pointed bumpers. Bumpers must have a bumper skin over the face of it.
2. No car bumpers allowed - tube only
3. No angled gussets connecting your bumper to the frame. You can only use 2x2" angle iron to overlap your welds to make sure your bumper doesn't break loose.
4. You are allowed 2 pieces of 1-1/2 x 1-1/2" square tube to reinforce your frame. Connecting engine saddle to front bumper. Cannot go farther back than front edge of engine saddle. Do not place it on outside face of the frame.
5. The only other tube steel allowed in the front of the truck is;
 - a. A piece of tube (3" max) across the top of the core support
 - b. And 2 down bars (3" max) connecting your core support bar to your frame rails. These 2 down bars must stay vertical. You are not allowed to have kicker bars from the core support bar to the engine mount area.
 - c. The 2 down bars can have 6" triangle gussets at the bottom where they meet the frame. 3/8" max thickness plate steel. No tube gussets.
6. Radiator or Radi barrels allowed. Barrel width must stay inside of your frame rails. 3" max. Mounted to vertical uprights only in 4 locations. 4- 2x2" angle iron, 6" long, cannot touch frame. Must be mounted in factory position.
7. You can have a max of 8 hood bolts (1" max). Bolts can only connect sheet metal to sheet metal.
8. 2 of your hood bolts are able to run down to your frame rails by the core support area.

9. Your hood must either be removable or have large enough hole cut in it to fully inspect the front area.
10. You cannot add an engine saddle/cross member if it did not come with one from the factory.

Cab Area

1. Floating cab steel only. Meaning none of your dash bars, door bars, etc., can be welded to your frame.
2. Cab bolts can only be welded along the outside of your frame rail or bolted to the top lip.
3. You can add 6 additional bolts (1" max) inside the cab, 6" washer max and no washers can be connected.
4. May bolt cab to box with up to 3 bolts, (1" max) 6" washer.
5. You can patch rusted through floor pans with 1/8" sheet metal.
6. Doors are to be welded shut. Your material shouldn't venture more than a couple inches past your door seams. Same applies to welding your box to your cab. (1/8" max)
 - a. No re-sheeting body panels
7. If you build a roll bar inside your cab, all of it must stay inside your cab and not anchor into the bed.
8. If you run a 4 door, all of your cab steel must stay within the front area. Just like if it was a single cab. Nothing more than 10" behind the driver's seat. Your additional bolts can extend behind the driver seat.

Bed Area

1. Rear frame must be capped. Use either channel or square tube
2. You are allowed 8 additional box bolts. (1" max) 6" washer max, no washers can be connected.
3. Box bolts can only be welded along the outside of your frame rail or bolted to the top lip.
4. You are allowed to use C channel as a gas tank protection. Laid flat along your bed floor. Must stay in front of the wheel wells and cannot be connected to your cab steel.
5. You can only use 4 of your additional box bolts through this gas tank protection down to the frame. If you choose to have a roll cage in the box, it must stay in the box. No wider than the width of the frame, no farther back than 3 feet from the front of the box. And stay in front of the wheel wells. This can be anchored in the same manner as the gas tank protection and cannot connect to the cab steel. May choose either gas tank protection or a roll bar but not both, in the box.
6. You can lay a piece of angle iron along your box where it meets the tailgate. 3" max
7. Weld your tailgate so it does not fall off your box.
8. No wedging or flattening your box or tailgate.