



## LIMITED WELD RULES 2020

1. Refer to general rules for non-building rules
2. You may use the following:
  - Lower cradles with a pulley protector, distributor clamps, slider drive shafts, aftermarket shifters, aftermarket axle shafts, headers, pinion brakes, any wheel and tire. Electronic fuel systems with clear ON/OFF switch.
  - Carb protector, braced rear axle, aftermarket brake and gas pedal, battery box, and transmission coolers. Aftermarket/ homemade bells or tranny braces may not reinforce structure of vehicle. Rule below states how they can be used!
3. You may not do the following.
  - No distributor protectors, mid-plates, steel tail shaft housings, axle savers
  - No 04 and newer Dakota or Durangos in minis
  - No Imperials or imperial framed cars. No ambulances or hearses.
  - Fwd's may not use full cradles.
4. **BASIC**
  - Remove all trailer hitches and hitch mounts, glass, chrome, plastic molding, A/C Coolant, antifreeze, and flammable material from inside and outside of the vehicle. Dash may be left in. Stock gas tank must be removed. Gas tank must be mounted securely in the rear seat area.
5. **DRIVETRAIN:**
  - Any engine or transmission may be used. Must remain in factory position.
  - Engine must be bolted in with engine mounts. Mounts may be welded to engine cross-member, After market engine mounts OK. You may also use (2) 4"x4"x1/4" plates to fasten engine down, may be welded. Or 4 links of 3/8" chain that may go to frame in max of 4 locations.
  - Radi-barrels may be used, must have 1" gap to frame each side. May only connect to the top and bottom of core support using (4) 3/8" bolts. May not be connected to core support threaded rods or frame in any way.
  - All protectors used may not interfere with the bending on the vehicle. Carb protectors cannot bolt to hood or touch cowl/firewall.
  - You may use 2"x2"x1/4" tube to replace transmission cross-member. Cross-member may be welded or bolted into place. May use 2"x2"x6" angle iron to mount on each end of tube. Nothing but the transmission mount may connect to transmission cross-member.
  - May swap rear axle, may be braced cannot strengthen vehicle.
  - You may run and aftermarket bell housing, may not contact floor, nothing may be tied into it.

**Or**

  - You may use a trans brace that bolts to bell housing bolts and the tail shaft housing bolts. May only go over the top of the transmission, brace cannot contact cage or floor.

**2003 and newer Ford, Lincoln, Mercury.**

Rule questions contact Justin Hall 507.951.8720

All other inquiries contact Steve Heitman 612.741.5941 or jodiheitman@yahoo.com

To mount your engine you may use a maximum of 6"x6"x12"x1/4" piece of angle iron. This angle iron cannot be welded, and must be bolted in to the top two a-arm mounts.

You can weld steel off of these to build a pad for an engine mount to be welded to.

You may not connect these mounts with each other, must remain separate.

## 6. SAFETY-CAGE

Cages are mandatory! Cages must remain inside of vehicle except for halo bar. Door bars and cross bars may connect.

Door bars can go no further forward then the firewall, they can go no further rearward then the most forward part of the rear wheel wells.

You are allowed a rear gas tank bar.

If you use a gas tank protector no wider than 24" may only connect to seat bar. Must maintain a minimum 2inch gap between all body tin. Cage must remain 6" off the floor, dash bar must remain 6" from fire wall.

You're allowed 4 down bars total, 2 per door bar. Bars must be vertical no bigger than 2x4, down to the floor. May be welded to floor and door bar, no pads or filler material.

### MINI TRUCKS:

Follow rules above except for the following rules.

Cage must stay in cab. You are allowed a box cage, it cannot connect to interior cage. It can go no further back than 24" from the cab. Cage may be attached to box floor only, in four locations only. May be welded or bolted in with max of 6"X6" pads.

## 7. BODY:

Hood must have a 12"x12" hole to easily extinguish engine fires

Hoods may fastened down in 6 locations with wire, chains, or threaded rod 1" max.

If using threading rod, you're allowed 6"x1/4" max washers .

Rwd vehicles are allowed two hood bolts to the frame at the core support.

Fwd are allowed 4 hood bolts to the frame.

You may replace a hood bolt location with (2) 2"x2"x6"x1/4" pieces of angle iron. Bolted together with (2) 3/8" bolts. Hood hinges do not count as hood bolt location.

Max of 4" gap from frame to core support.

You are allowed two windshield bars MAX of 3"x3/8" bars may not connect in any way. They may be welded on to the roof and cowl 6". Your 6" 's starts at the windshield opening.

You are allowed one rear window bar 2"x2"x1x4" tube MAX. It may be welded on the roof and trunk 6" max. Your 6" 's starts at the rear window opening.

Fender wells may be trimmed for clearance, each wheel well may be bolted to fender with (5) 3/8" bolts with max of 2" washers.

Doors may be welded 5" on 5" off with max of 2"x1/4" material max. If you choose not to weld you doors shut you're allowed to use chain or wire, in 8 locations max.

In 4 locations you may run 7/16" chain or 3 strands of 9 wire, must be ran vertical only. From roof down around frame, may not connect to cage in any way. They must stay in-between fire wall and package tray on the inside of the car.

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Trunks may be welded 5" on 5" off with 2"x1/4" material. You may have (2) 1" threaded rods that may be used to bolt your trunk lid down. Rods must remain vertical, they may be welded to frame. 6"x6"x1/4" washers max may be used with threaded rod

If you choose to use chain or wire, max of 3/8" chain, in a max of 8 locations, (2) may go to frame.

Tailgates may be welded 5' on 5" off, outside of body only. Tailgate may not be removed, must remain vertical.

Body shaping allowed on rear quarters only allowed. You may tuck you trunk 50%, you may dish trunk 4" max.

Body mounts may be changed to 5/8" bolt's, must remain in factory locations. You must retain a 1" gap in between frame and body, 3"x1/4" washer's max. Body bolts may not be welded , no pinning of frame, washers may not connect.

No floor plates , peddles may only bolt to tin may not tie in to frame or cage.

Battery boxes, must be in the front passenger side floor board. Battery box must be secured to sheet metal only. Your battery should be secured in your battery box securely and covered with non flammable material.

#### **FRAMES:**

No plating, loading, pinning, or filling of frames.

No frame seam welding or any welding on to the frame, unless specified in the rules.

Peening on the humps is allowed, 1 foot wide centered over the rear axle. No other frame shaping is allowed.

Tilting or cold bending is allowed, one location per rail, single pass of weld.

You may chain or wire humps together with (1) 3/8" chain or 4 strands of 9 wire, in one location.

You may notch and pre-bend rear frame rails.

You may shorten front frame rails to the core support, core support must remain unaltered in stock location. Spacers at the core support not to exceed 4" long.

Any OEM bumper may be used, from any year car. Bumpers may be welded and loaded, no altering or adding of points to factory bumpers. Replica bumpers are allowed must follow factory dimensions, please call for clarification.

Or

You may use a 6"x6" by width of vehicle piece of material max, may be stuffed, may cap ends of bumper. Bumpers must remain flat, no homemade points allowed.

Bumpers may be hard nosed to frame.

Any bumper bracket or shock or 3/8"x4"x12" plate may be used to mount bumper. You may have only one shock, bracket, or plate per rail. Bumper shocks, brackets, or plate may only be welded 12" back from bumper.

**03 and Newer Ford, mercury, Lincoln cars** only get 6" brackets.

FWD cars must have a 5/8" inspection hole in bumper bracket, that allows viewing in to the frame for scope.

No adding of crossmembers unless specified

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**SUSPENSION:**

May run aftermarket steering column, may add u-joints

May swap steering boxes as long as they bolt in. Aftermarket tie-rods or braced tie rods allowed, after market ball-joints allowed, all other steering must remain OEM to car.

No modification to spindles or hubs.

No welding or relocating of sway bar must bolt in, sway bar must be removed if running a pulley protector.

Front suspension may be welded or bolted. If bolting your allowed one ¾" bolt through upper A-arm to frame.

If welding your suspension you must use a maximum of one 3"x3"x1/4" piece of angle iron or equivalent material, on lower a- arm up to the bottom of the frame. Must be ran vertical from lower a-arm to frame. No welding of upper arm if using this method.

Or

You may use (2) 2"x4"x1/4" straps to weld down a-arm, 2 per upper a-arm.

Upper A arms may be changed as long as they bolt in, without altering mounts.

Rear control arms may not be strengthened in any way. Control arm may be shortened/lengthened 1" overlap to correct pinion angle.

Coil springs may be interchanged or doubled.

You may run 1 chain per side, around rear end and up to package tray.

You are allowed 6 leaf clamps per leaf pack. No flat stacks, or added leaves.

No leafing of no leafed vehicles. Watts link conversions allowed as long as they bolt in on top.

Lowers may be welded in, 4" max of total weld per side. Lower mounts may not strengthen vehicle.

Stock shocks only, no stuffing shocks, or homemade shocks.

**FWD ONLY:** Trailing arms may be reinforced, but must mount to factory mounts and location.

**REPAIR:**

You may use (6) 6"x6"x1/4" plates to fix bends. Plates may only be on one side of frame. Plates may not be doubled or over lapped, may not box c-channel frames. Plates must have a 1" gap between welds minimum.

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