



## GLENCOE FAIR DEMO DERBY 2022

### ½ Ton Trucks

#### ½ TON TRUCK BUILD RULES

1. **STOCK SIZE:** Stock full size ½ ton trucks/SUV. 2 and 4wd. 6 & 8 cylinder. STOCK MOTORS. NO INTERCHANGING ENGINES. GM in GM Dodge in Dodge ETC
2. NO cars, jeeps, hearses, limousines or checker cabs. Cars previously ran may be considered too battered and unsafe, resulting in disqualification. If there is in any question regarding the participant's vehicle, it is the driver's responsibility to prove make, model, year, engine rear end, etc.
3. **FLAMMABLE MATERIALS:** Seats & trim -All must be removed from the vehicle except driver's seat and passenger seat.
4. **GLASS/AIRBAGS:** All windows, mirrors, airbags & trim must be removed prior to inspection
5. **TRAILER HITCH:** Must be removed and all sharp edges must be hammered down prior to inspection
6. **DOORS & NUMBERS: DRIVERS DOOR ONLY MUST BE PAINTED WHITE** with number on it. If the vehicle is white the driver's door must be out lined in Black or Bright color to make it stand out.
7. **FIRE EXTINGUISHER:** Must be within reach of the driver and must be in working order.
8. **GAS TANK:** Stock tanks must be removed. **NO ORIGINAL MANUFACTURERS TANKS ARE PERMITTED.** Must use a CSA approved tank or fuel cell (custom or equivalent alternative is permitted). All tanks require a non-flammable cover to be secured after inspection. **(AIR BAG MATERIAL RECOMMENDED).** Metal tanks are strongly recommended, but CSA rated plastic boat tanks are acceptable. All tanks must be securely fastened down (Bolted or welded) to the frame in the box. You may weld in a mounting plate max. ¼ thick 14" long x as wide as the frame rails. A hole 6" larger than the tank should be made in box to allow tank to be mounted to frame. Tanks in extended cabs and suburban's must be securely fastened in rear passenger compartment.
9. **BATTERY:** One battery only for gas engines, if diesel you may have two batteries. Must be moved to passenger side floor and securely fastened in a box/ container clear of all fuel sources. Following inspection, it must be covered with a non-flammable shield.
10. **FUEL LINES:** All fuel lines must have a leak proof fitting with steel or rubber lines. (no clear lines) No exceptions. Lines must run inside car.
11. **ELECTRIC FUEL PUMP:** Must Have a safety shut off switch (punch button), marked in red located on roof in center of windshield for officials use. Pumps must be securely mounted.
12. **FUEL SYSTEM:** Electric fuel pump must be isolated with a non-flammable material covering lines, tanks and pump. Non-flammable covering may be fire resistant blanket or airbag material.
13. **HOOD:** Hoods are not mandatory. Without hood – use electric fan only - fans directly connected to motor must be removed. Hood to be in stock position or removed. With hood - a 12" opening must be cut in the center of the hood. Hoods must remain open for officials' inspection. Hood can be fastened down in maximum of 8 places including seat belt strapping, wire, or chain only. Hoods/rad support can be wired to bumper in 4 places. These spots will account for 2 of the 8 spots. Hood can be bolted thru the rad support with 2 3/4" bolts. The 3/4" rod or bolts can pass through hood, rad support, factory body mount, bushing must be in place. Trunk/tailgate to be fastened down in same way as hood. Trunks/gates can be fastened closed in maximum or 8 place including wired in 4 places to rear bumper. No other bolts holding hood/trunk closed except hinges. No welding. NO folding box sides or tailgates. Stock position.
14. **BODY PANELS & BOX SIDES:** No body bending or bolting. Absolutely no wedging!!!!

15. **DOOR FASTENING:** All doors must be fastened shut with wire, straps, ¼ " chain in 6 spots. On reg cab trucks you may also weld the doors in 6 spots with a 3x3inch by 1/8 thick steel patch & 9 spots per side on a ext or crew cab truck.
16. **WINDSHIELD SPACE:** Must have a minimum of a single steel bar or chain from the cowl to the roof A or H frames permitted, must be centered and maximum 36" wide and minimum of 8" above cowl, must be bolted not welded.
17. **ROLLBAR/DASH BAR:** We recommend you install a seat bar on extended cab and quad cab trucks. Bar may be up to 4" in diameter and ¼" wall with a max 5" plate on either end. This must be bolted or welded in. Halo bars are permitted but must be welded or bolted to door posts with a max 5" plate on either side or two 3/4" max threaded rod or bolts through floor one per side on each side may be bolted but not welded to the frame. Halo bars must be bolted to roof in 2 spots. If you don't have a seat bar, please use a strap of some sorts behind your seat to stop it from snapping backwards. **THIS IS FOR DRIVERS SAFETY!!**This bar goes door post to door post behind the driver's seat. Dash bar cannot be connected to seat bar, roll bar/ halo bar or window bars.
18. **BRACING:** Inside car: Post to post bar behind front seats – 3" to 4" in diameter. Can be welded or bolted in place. DASH BAR- 3" to Max 4" square tubing mounted doorframe to doorframe, but not to firewall. Not Mandatory. Driver Safety. A bar can run between dash and seat bar up each side of the cab strictly for driver's safety. Outside Car: Flat bar only bolted 8 times with a maximum 3/4" bolts Max 72" long x 12" wide x ¼" thick. NO "C" CHANNEL, ANGLE IRON or BEVELLING. Not mandatory. Driver Safety. Between the door seams, there is no limit on driver's door protection.
19. **BUMPER:** Front bumpers may be swapped to any OEM car bumper. No seam welding, no loading. Bumper can be welded to the end of the frame as well as have 2 (2" wide) plates per mounting point to hold the bumper on, 2" on frame, 2" on bumper. Rear bumper can be removed. IF rear bumper is removed, a max 3x3 tube can be welded in between at the end of the frame rails so the rails do not become spears. Mandatory that both front and rear bumpers have minimum of 2 places of 9 wire holding the bumper on.
20. **RADIATOR:** Must be flushed of anti-freeze and replaced with water only. Overflows must point straight down and be secured. Rad must be in original position or removed. No tilted or floating rad's.
21. **SUSPENSION:** Suspension must remain STOCK (movement must occur, no adding leaf's). Broken or sagging parts may be replaced with stock parts. It's required that the rear coil be wired to the differential. No spring blocks or added helper. No clamping leaf springs, or chaining rear ends down. Leaf springs must be stock and from that make and model truck only
22. **TRANSMISSION COOLERS:** Transmission dipstick must be securely fastened, wired, duct taped down or have an overflow tube that points at the ground is permitted and must be secured in engine compartment.
23. **FRAMES:** No welding or shortening of the frame. BENT frames can be repaired with 2 (4x4x1/4") plates. Frame repairs are to be painted a bright colour and be reported to officials at inspection. Trailer Hitch MUST be removed completely. 4wd trucks are allowed with drive shaft or transfer case removed.
24. **MOTOR MOUNTS:** Motors must be bolted in or welded. Stock motor mounts may be chained. Any excessive reinforcement will result in disqualification. You may change motors Chevy to ford etc. Stock motor mounts may be chained or welded. Custom engine brackets may be used to mount the motor. Aftermarket motor mounts may be used, but motors must be "rubber" mounted. No front engine plates or mid-plates between engine & transmissions allowed. Minor distributor protectors allowed. Must be 2 Inches from firewall on fresh cars. Can ONLY be bolted/ mounted to back of the engine and to front or top of engine ONLY!!!! CAN NOT be connected to motor mounts, headers or lower engine cradle. If distributor protector is mounted in any way to Reinforce the car it will NOT be permitted. If using harmonic balancer / pulley protector sway bars MUST be removed. Any excessive reinforcement may

result in disqualification. ABSOLUTELY NO MID-PLATES ALLOWED BETWEEN ENGINE AND TRANSMISSION.

25. **BODYMOUNTS:** All rubber body mounts, and stock size bolts must stay in place. Increasing bolt size is not allowed. If rotten they may be replaced with stock sized bolts and mounts. Rubber body mounts must still be there. The box may be fastened to the frame in 4 spots with wire, straps, ¼ " chain or seat belts.
26. **TIRES & RIMS:** Any tires are welcome except studded tires. No screwing tires to rim or studding. Tires may be doubled but not loaded All wheel weights must be removed. **No reinforced rims or bead lock rims permitted!!!** Rims may have wheel centers welded in to accommodate bolt pattern only!!! Not to strengthen the rim. No weld in backing plates.
27. **PRE-BENDING:** No pre-bending frame or body. Notching of frame is permitted.

## MEMOS

- Aftermarket Gas Pedals, Brake Pedals, Steering Columns & Transmission Shifters are ok to use as long as when mounted they are not reinforcing the car in any way.
- Rear-end Protectors Are NOT permitted!!!
- Absolutely No Welding on Frames unless specified in the rules. ( ex. A 1" weld on the frame will become a 2" hole in frame if caught, A 3" patch will become a 4" hole if caught etc...)