

LAWRENCE COUNTY FAIR

V-8 Antique Tractor Rules

**Tractor must have been manufactured in 1972 or earlier
& be an agricultural wheel drive tractor.**

1. Engine must be a naturally aspirated V-8, with a cubic inch displacement no larger than 521.16 c.i. Block and cylinder heads must be cast iron. Single carburetor, no fuel injection, no turbo chargers or forced air induction of any kind. Aluminum manifolds are permitted. Headers must exit in an upward direction. Motor must be parallel with input shaft of transmission and be mounted in the center of the frame. Spark plug guards must be in place to deflect downward or contain spark plug.
2. No power shift or locking differential, factory TA permitted.
3. Kill switch of a breakaway type is required and must be wired to MSD and fuel pump. Switch must be accessible and functional. Subject to random inspection.
4. Crank driven engine cooling fans must be a minimum rating of 8,000 RPM or electrically driven.
5. It is recommended that the fuel tank be mounted in front of tractor.
6. Maximum allowable RPM's will be no greater than 6000. All ignitions must use a MSD system with a 6000 maximum RPM limiter chip or limiter box. Must be equipped with a recall tach. No more than 100 RPM variation over 6000. If checked and tach recall is cleared, it is an automatic
7. disqualification. If tractor is over 6100 RPM's tractor can be checked with handheld tach as a backup for accuracy.
8. Fuel: Gasoline fuels only with a maximum of 750 specific gravity, no E85, no alcohol, no pressurized fuels, no nitrous oxide, no oxygen accelerate, no nitrogen methanol, and no propylene oxide. Racecar gasoline may be used.
9. Crank harmonic dampener hub must be SFI 18.1 rated or a steel shield must be constructed tightly around a nonrated pulley or hub to contain it in all directions of exit.
10. Pressure plate must be competition type and be SFI approved.
11. Tractors built prior to 1/1/2006 must have a steel constructed flywheel of greater than 1¼" maximum thickness. Cast iron flywheels are not permitted. Flywheels must be accessible for inspection. Tractors must have a steel shield around flywheel and clutch with a SFI blanket with a minimum rating of 4.2. The shield must be made of .25" (¼") minimum thickness and minimum with equal to the thickness of the flywheel and pressure plate assembly. Shield may be attached to bell housing, engine, or chassis.
12. Tractors built after 1/1/2006 must have a SFI rated competition designed flywheel, clutch, and pressure plate. Tractors must also have a steel bell housing with SFI rating of 6.1, 6.2, 6.3, or a SFI rated blanket with a 4.2 rating.
13. Universal joints, chain couplers and drive shaft must be surrounded by .25 (¼") steel the entire length.
14. Air cleaners must be under the hood.
15. Steering may be rack and pinion or hydraulic.
16. Diesel conversions are allowed but must run on gasoline with no injection.
17. Throttle has to be dead man type with return spring.
18. Frame ties are mandatory and must be mounted to the rear end. Ties must extend ahead of the rearmost mounting location of engine block. Ties must be able to support the tractor with bolts removed from rear end and transmission.
19. Wheelie bars are required and should not be attached to the draw bar in any way. Bars must extend beyond rear most plane of tire and be able to support the tractor. Tech crew has right to put jack under skid pad. Skid pad height is 10" maximum.
20. Fenders and roll bars are required. Roll-over protection must extend higher than the driver's helmet.
21. Tractor has to be equipped with a fire extinguisher ABC or Halon for all.
22. Sheet metal must be stock appearing dimensions. Must be in stock location as measured from center line of rear axle. Sheet metal can be from a different tractor and must be older than 1972. Tractor wheelbase may not exceed 102" from center of rear axle to center of front spindles. Front wheels must overlap rear tires when sighted from front of tractor. Rear end, transmission, and axle housing must appear

stock. Internal modifications are allowed but transmission shafts must remain in stock location. No differential locks permitted in rear end. Front end and frame rails can be fabricated, but must be safe for the heaviest class. Frame rails may extend to rear axle. Maximum overall length, including weights measured from center of rear axle is 12 feet.

23. Draw bar must not exceed 20" in height and not less than 18" from center of rear axle. Drawbar must be stationary in all directions with a minimum of 3" hole.

24. Drivers must have a SFI 3.2a/1 or better jacket and SNELL crash helmet. Must have a valid driver's license. Seat belt or harness must be worn.

25. Drivers must stay on the seat at all times. Hands must be on the steering wheel, hand brakes, hand clutch, or throttle at all times during pull. Double clutching is prohibited.

26. Technical inspections: all tractors may be pumped or measured. An appointed tech man outside the V8 class, and one V8 class puller other than the owner of the tractor will be present when being pumped or measured. Pans must be sealed with USA-EAST or COTPA or NW PA PULLERS wire seal on two oil pan bolts. One head bolt will be painted on the engine to insure engine hasn't been completely torn down after inspection. Tractors without the wire seal on the oil pan or paint on the head bolt will not be allowed to pull. When performing the pump test, engine cubic inch can be a maximum of 521.16.

27. Tires: 18.4 x 38 maximum allowed bias or radials with any cut.

28. Drivers found cheating will be banned from pulling for one year.

29. Single pull events, weight class will be 6500 #.