

Tractor Pull Rules and Changes

The Lamoille County Field Days is contracting with the Vermont Tractor Pullers Association to organize and run the tractor pull. The pull is on July 27, 2008, during the Field Days' activities. The group that owns the sled has said that ALL tractors will be required to have wheelie bars and that they have to be to their specifications. Included is a diagram of what they want. If you have questions about their rules and regulations you can view their website:

www.vttractorpullers.com or call Randy Boise at his home---

802-453-5076. He is president of the Association and will help you however he can.

FARM STOCK TRACTOR RULES

1. General Rules apply see page 2.
2. All tractors must be stock-blocked, agricultural tractors with no visible engine modifications. Engine must be of original type or factory replacement. Original style hood and grill must be in place.
3. Drawbar height for classes under 9,000 pounds will be a maximum of 19", and for classes over 9,000 pounds will be a maximum of 21". Minimum length of drawbar is 22" from center line of axle housing and a maximum of 36" from center line of axle housing.
4. Drivers must provide their own hitching device or clevis with minimum 3" diameter opening for hooking. The third link of three-point hitches will not be used in any way to stabilize the drawbar. There must be a dead man zone of 18" in height and 6" wide to the top of the drawbar.
5. All weight must be safely secured to the tractor, and not to interfere with hitch. Weight is not to exceed 24" forward of the front most portion of the tractor. Any ballast or external parts lost while hooked to the sled will be cause for disqualification. No weights may be moved from one tractor to another competing in the same class during that class. No portion of tractor may interfere with sled or sled hitch during a pull. Hitch needs to be visible for hitching & unhitching.
6. All tractors with rubber tires are permitted. No sharpened or cut tires. Tire studs or chains are not permitted. Dual tires are required on 2WD tractors in 4WD class as long as duals are held together by at least 4 connectors. No minimum or maximum tire pressure is prescribed. In weight classes of 18,000 lbs or greater, tractor & driver can not weigh less than 1000 lbs of the maximum weight of that class. (i.e. in 18,000 lbs class, tractor & driver can not weigh less than 17,000 lbs.)
7. Turbochargers, intercoolers, superchargers, torque converters, automatic shifts, etc. are permitted provided such is original equipment.
8. All exhausts must either: (a) discharge vertically upward with a minimum 18" straight pipe or muffler in working condition or (b) discharge through a factory, underslung exhaust system in working condition.
9. Stabilizer bars or wheelie bars are required and must meet VTPA specifications (refer to diagram in back of book).
10. A dead man throttle is not required; however, drivers are advised that one can be easily rigged using a rubber shock strap.
11. All tractors weighed at event.
12. Maximum 700 PTO RPM on 540 shaft or 1150 RPM on 1000 shaft. Engine RPMs not to exceed 3000 RPM and governor must have stop and drop PTO limit. This RPM limit will be tested and strictly enforced. Violators will be disqualified if checked after pull and do not pass.
13. Any stock farm tractor that has eliminated factory air canister and filters will be required to run air shutoffs that can be activated from the driver's compartment. Must meet VTPA specifications.
14. All stock farm tractors will be required to be shut off by factory ignition or throttle shut off. (Explanation: NO stalling of engines while in gear for shut off.) Will be checked during inspection or at discretion of tech officials.

ALTERED FARM STOCK TRACTOR RULES

1. General Rules apply see page 2
2. Altered Farm Stock tractors are stock appearing tractors with enhancements to create more horsepower and pulling ability than similar stock models.
3. Tractors with engine modifications, tire modifications, or higher than rated engine RPM will be expect to enter in Altered Farm Stock tractor classes. Tractors with above modifications entering stock classes will be disqualified and not allowed to re-enter Altered Farm Stock classes.
4. A tractor must pull in Altered Farm Stock or stock classes, no mixing of classes.
5. No Cut Tires.
6. Turbocharger compressor measurement to be measured at the face of the wheel inlet of a maximum of 3.0 inches. The wheel may be no larger than this measurement at the inlet. An exhaust measurement to be measured at the face of the wheel inlet of a maximum of 3.0 inches. The wheel may be no larger than this measurement at the outlet. All exhaust must exit through the turbo.
7. All Altered Farm Stock tractors must have approved 6 strap SFI clutch blankets and removable engine side shields. Blankets must be secured in front with 2 straps on each side. Straps must be 2" wide with a maximum of 1" between the straps.
8. All Altered Farm Stock tractors must have air shutoff (diesel) or ignition shutoff (gasoline) that has a hookup ring at the rear of the tractor to be connected to transfer sled. Kill switch must be with 6" of center and no more than 48" above hitch. It is recommended that an electric assist fuel pump be tied to the kill switch.
9. All turbo charged tractors must have 2 – 3/8" bolts installed criss-cross through the exhaust after the turbocharger.
10. Decision of the judge(s) will be final.
11. Any tractor operated in a reckless manner or having an unsafe appearance will be disqualified. Any disqualification bars a second attempt in the class.
12. All operators must wear an approved racing helmet. It is recommended that all tractors be equipped with a lapbelt, and it is recommended that it be worn.
13. All Altered Farm Stock tractors must have a 2 ½ lb. dry chemical fire extinguisher mounted with easy reach of the driver.
14. Naturally aspirated tractors may have non-stock intake and exhaust manifold. Turbo charged tractors must have OEM for that manufacturer intake and exhaust manifolds.
15. It is highly recommended that all Altered Farm tractors have an SFI approved clutch and flywheel. All tractors will be MANDATORY to install frame connecting ladder bars. Frame connectors must be secured adequately from final drive housing to forward of bell housing and flywheel. Frame connectors must meet VTPA criteria: able to support tractor with engine disconnected from rear housing.
16. Recommend OEM ROPS bar or SFI approved roll cage.
17. Fire suits mandatory.
18. Wheelie bars are mandatory and must meet VTPA specifications (refer to diagram in back of book).
19. Draw Bar: Draw bar must not exceed 20 inches in height. A 3" opening in drawbar. Draw bars must be stationary in all directions. No clevises. There will be a dead man zone of 3" on either side of draw bar. Minimum length of drawbar is 22" from center line of axle housing and a maximum of 36" from center line of axle housing.
20. Drivers must be at least 16 years old and capable of operating the tractor. Drivers under 18 must have parental consent.

STOCK ANTIQUE TRACTOR RULES

1. General Rules apply see page 2.
2. Stock, out of field antique farm, tractors, 1960 or older, rubber tired, standard Ag tread, set in forward rotation.
3. Steel wheels (cleated or lugged) permitted.
4. No cut or ground tires; no duals, studs, or chains.
5. Two wheel drive (four wheel drive with front disengaged).
6. No alternative fuels; original equipment only.
7. Must be equipped with hood and grill.
8. No pulling from 3 point hitch or links (except for Ford Ferguson). Drawbars must be stationery in all directions
9. Maximum drawbar height: 20" to top of fixed hitch – (clevis is not the fixed point).
10. Minimum drawbar length behind PTO: 5" (or 22" behind centerline of axle if no PTO).
11. Maximum drawbar length behind PTO: 16" (or 36" behind centerline of axle if not PTO).
12. Equipped with a hitch point with a minimum of 3" opening (standard or twisted clevis excepted).
13. Governor bypass or over speeding prohibited. 700 PTO RPM maximum.
14. If a dyno is present at event, you may be asked to hook to it.
15. Torque amplifiers only as original equipment.
16. Weighted with operator and weighed prior to class.
17. Must have working rear brakes.
18. Tractor may be entered in no more than two classes per event, once per class; no switching operators within classes. It will be official discretion to allow additional hooks if not enough participation.
19. Added weight and/or brackets securely attached to frame or wheels. None behind or above rear tires or over 24" ahead of frame. Must not interfere with hitching. None on seat, platform, footrest, drawbar, 3 point links, or moved to another tractor in same class under penalty of removal. Maximum width, 10 ft.; redi-rods or attaching bolts will NOT protrude more than 4" in heaviest weight class. Any weight lost while hitched to sled DISQUALIFIES. Suitcase weights allowed.
20. 2 ½ lb b/c fire extinguisher recommended
21. Wheelie bars and skid shoes MANDATORY and must meet VTPA specifications (refer to diagram in back of book)
22. Must have working PTO, if originally equipped with one.

ENHANCED ANTIQUE TRACTOR RULES

1. General Rules apply see page 2
2. Age: Driver must be 16 years of age or older. Those under 18 years of age must have written parental / guardian permission.
3. Safety: All tractors must have a deadman throttle and working safety kill switch. Wheelie bars are per VTPA design specifications (refer to diagram in back of book), wide front ends, fenders, use of seat belts and use of rev limiters are highly recommended. All tractors must cover the clutch housing with an approved scatter safety blanket. Steel flywheels are highly recommended.
4. Draw Bar: Draw bar must not exceed 20 inches in height. A 3" opening in drawbar. Draw bars must be stationary in all directions. No clevises. There will be a dead man zone of 3" on either side of draw bar. Minimum length of drawbar is 22" from center line of axle housing and a maximum of 36" from center line of axle housing.
5. Weights: Weights must not extend rearward beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest point forward.
6. Tires & Rims: No steel lug wheels. Two wheel drive only. No Duals. Any cut allowed on tires. No radial tires
7. RPMs: Rpm's allowed will be 130% of 1959 manufacturer's data of 130% of that series engine: i.e. F-30 Farmall can run 30% over 450 IHC RPM's. The NATPA RPM Chart will list maximum RPM's allowed. If 1959 manufacturer's data is not available then the Nebraska test chart will be used. All tractors must have side shields of at least .060" metal and a scatter blanket. Enhanced electrical systems permitted in all classes. Rev limiters are allowed. All tractors must have a positive throttle stop with fully operational governor.
8. Speed: Any gear, any speed. Shifting of TA's allowed.
9. Engine: Tractors must be naturally aspirated. No turbos or blowers - except two stroke GM diesels.
10. Tractors must have stock frame, transmission, rear ends and axle housing. Front axles must be safe, sturdy and similar to stock with a stock wheel base. Crank cases must bolt to transmission in a stock appearing manner, be of the same manufacturer as the original crank case, must be the same length as the original crank case and be the same number of cylinders as the original make and model of the tractor. Heads, blocks (jugs), manifolds must be of the same manufacturer as the crank case or that of a recognized replacement manufacturer. Series engine must match series of tractor.
11. Any updraft agricultural type carburetor will be allowed. Diesel tractors may be converted to gas as long as they use gas heads.
12. Any integral plate, girdles or reinforcement devices that enhance rigidity and improve safety will be allowed. Deck plates can be no thicker than 1" material: girdles can be no thicker than 1" material; spacer plates can be no thicker than 2" combined.

ALTERED ANTIQUE TRACTOR RULES

1. General Rules apply see page 2
2. Altered Antique tractors have stock appearing hood & grill for that model tractor. Tractors must be 1960 or older.
3. A tractor must pull in Altered Antique, no mixing of classes.
4. Cut tires & uncut tires are allowed.
5. Turbocharger compressor measurement to be measured at the face of the wheel inlet of a maximum of 3.0 inches. The wheel may be no larger than this measurement at the inlet. An exhaust measurement to be measured at the face of the wheel inlet of a maximum of 3.0 inches. The wheel may be no larger than this measurement at the outlet. All exhaust must exit through the turbo.
6. All Altered Antique tractors must have approved 6 strap SFI approved clutch blankets and removable engine side shields. Blankets must be secured in front with 2 straps on each side. Straps must be 2" wide with a maximum of 1" between the straps. Steel welded bands around bell housing will NOT be accepted.
7. All Altered Antique tractors must have air shutoff (diesel) or ignition shutoff (gasoline) that has a hookup ring at the rear of the tractor to be connected to transfer sled. Kill switch must be with 6" of center and no more than 48" above hitch. It is MANDATORY that an electric assist fuel pump be tied to the kill switch.
8. All turbo charged tractors must have 2 – 3/8" bolts installed criss-cross through the exhaust after the turbocharger.
9. Decision of the judge(s) will be final.
10. Any tractor operated in a reckless manner or having an unsafe appearance will be disqualified. Any disqualification bars a second attempt in the class.
11. All operators must wear an approved racing helmet (minimum Snell rating 90). Fire suits mandatory. Minimum requirements for fire suit with a Nomax rating of SFI 3.2A-1 (single layer). It is recommended that all tractors be equipped with a lapbelt, and it is recommended that it be worn.
12. All Altered Antique tractors must have a 2 ½ lb. dry chemical fire extinguisher mounted with easy reach of the driver.
13. Naturally aspirated and turbo charged tractors may have non-stock intake and exhaust manifold.
14. It is highly recommended that all Altered Antique tractors have an SFI approved clutch and flywheel. All tractors will be MANDATORY to install frame connecting ladder bars. Frame connectors must be secured adequately from final drive housing to forward of bell housing and flywheel. Frame connectors must meet VTPA criteria: able to support tractor with engine disconnected from rear housing.
15. Recommend OEM ROPS bar or SFI approved roll cage.
16. Wheelie bars are mandatory and must meet VTPA specifications (refer to diagram in back of book).
17. Draw Bar: Draw bar must not exceed 20 inches in height. A 3" opening in drawbar. Draw bars must be stationary in all directions. No clevises. There will be a dead man zone of 3" on either side of draw bar. Minimum length of drawbar is 22" from center line of axle housing and a maximum of 36" from center line of axle housing.
18. Drivers must be at least 16 years old and capable of operating the tractor. Drivers under 18 must have parental consent.

VTPA Wheelie Bar Specifications for all Antique & Farm divisions:

- 1) STABILIZER BARS at a minimum must be flush to the back edge of tire and not to extend more than 10" beyond back of tire. Rigidly fastened to axle housing or rear end housing. STABILIZER BAR system must be able to support the weight of the tractor in the heaviest class pulled. Jacking up the pads so the tractor is completely off the ground is a good test of the strength of the system's support ability. STABILIZER BAR and bar assembly is not to be mounted to the drawbar and drawbar assembly (see Figure B)
- 2) STABILIZER PAD must be a minimum of 5" square with a minimum of 20" allowed from outside of one pad to another (see Fig. A) and a maximum height of 10" from ground.
- 3) BUMPER BAR must be mounted furthest most back point of stabilizer pad vertical and a minimum of 10" high.
- 4) SUPPORT BRACE must be attached to top of bumper bar horizontally back to stabilizer bar.

Diagram on Next Page

VTPA Wheelie Bar
Specifications
for
Antique & Farm Stock
Divisions

