

Puget Sound Antique Tractor & Machinery Association

Transplant Tractor Pulling Rules

All general tractor pulling rules apply

All Events

Weight Classes as determined by participants for entry:

Trans I-5500 lbs.

Trans II-7500 lbs.

Trans III-Exhibition

The pulling committee recommends prior to and during the build that they are consulted so the rules are interpreted correctly.

1. This is the class in which a different than manufactures intended engine has been placed in the tractor. The engine must be a tractor engine or an OEM automotive engine. Only 1 engine allowed and no turbine engines.
A-Gas engines are not allowed to have aluminum blocks unless OEM stock. Aluminum aftermarket heads allowed. Limit of 2 valves per cylinder and 1 spark plug per cylinder. Engine must be normally aspirated without turbo or blower. Use of throttle body injection is allowed, but no multi-port. A maximum total of 1050 CFM is allowed for carburetion. All other engine modifications are allowed (i.e. cams, manifold, ignition, etc.)
B-Diesel engine turbochargers must have two 3/8" bolts installed in outlet at ninety degrees from each other and have a minimum 3/16" steel shield around the turbo. Only mechanical injection pumps are allowed, no electronic programmers.
2. Exhaust must exit vertically, no side exhaust. Headers are allowed.
3. Engines may be gasoline, diesel, or propane types. No alcohol, methanol, or oxygen carriers (i.e. nitrous oxide). No ether or starting fluid cans are allowed on the tractor while pulling. There must be a hard fuel line made from steel, copper, or aluminum with a maximum of 6" of rubber.
4. All tractors must have a "deadman" throttle, working in a forward – rearward direction with rearward being closed. All throttles must have 3 return springs; one on the lever and two on the carburetor linkage arm. No foot throttles are allowed.
5. A 3/16" steel block-saver plate is required between the engine and transmission/clutch housing on tractors using an automotive type engine.
6. *If using a stock harmonic balancer, there must be a 1/8" steel shroud that is attached to the engine block or a SFI approved balancer.*
7. Standard, automatic, or torque amplifier transmissions are allowed. *If standard, a SFI approved steel bell housing is required or a SFI approved transmission scatter blanket must be installed around the bell housing. The factory cast bell housing is not a steel bell housing. If automatic, a SFI approved blanket is required to be installed around the transmission.* Automatic transmissions are required to have a positive reverse lockout so the transmission can't be accidentally shifted into reverse. If the torque amplifier is factory in the tractor transmission, no other safety items need to be installed.
8. *A safety shield of a minimum 1/8" steel or ¼" aluminum is required to be installed along both sides of the engine, but must not be attached to the engine. The shield must extend the length of the engine block; 2" below the crankshaft throw and to the top of the piston travel. Motor mounts, starter, and accessories do not count as a shield.*
9. *A fan shroud of at least 1/16" steel with a ½" clearance must surround the cooling fan and the shroud may be attached to the engine. An electric cooling fan does not require a shroud.
10. A break away or kill switch mounted to the chassis and not the hitch or seat is required. It must be within 6" of the centerline of the tractor and no more than 18" above hitch height at the rear of the tractor.
11. Must start with a production farm tractor and it must maintain its original appearance. The tractor's transmission and production front end, either wide or narrow, must be retained. The tractor must have an original looking hood and nose assembly. The wheelbase must conform to the factory specifications.
12. Fenders are required and must extend above the tires height. Custom made fenders are allowed if they are factory appearing.
13. Tires are limited to 20.8x.8 or smaller. No duals or four-wheel drive tractors allowed. Full cut tires allowed are at the discretion of the pulling committee.
14. See general tractor pulling rules for drawbar length and height. Differential housing may be altered for hitch fabrication. No drawbar supports above the center of the rear axle. Drawbar must be secure in all directions, with a hitch opening in the drawbar that must be 2 ½". No clevises allowed.
15. There must be 500 lbs. of movable weight and the weight may be redistributed at the discretion of the pulling committee.
16. Safety is of utmost concern and all Transplant tractors must have rear wheelie bars. The bars must extend at least to the back of the rear tires and be made of 2 ½" square tubing, ¼" thick. The skid plate must be at least 6" x 6" and made of at least 3/16" steel. The bars must be able to support the weight of the tractor and will be checked by the pulling committee. A design may be requested from the pulling committee. The driver is responsible to have the wheelie bars in the correct position prior to hooking to the sled.
17. The tractor seat must have a back that reaches at least to the small of the drivers back. The seat must be in a fixed or in a locked position.
18. Speed is limited to 12 mph when pulling. No speedometers.
19. All tractors must have a working fire extinguisher with a minimum of at least 3 pound BC rated type.
20. An inspection by the pulling committee is required for all transplants prior to pulling.

These rules are required for all tractors with more than 3500 rpm and recommended for those less than 3500 rpm.