

Tri-State Tractor Pullers Association Rules

6200 Naturally Aspirated Super Stock

General Safety Requirements

101. Tractor must be equipped with rear fenders.
102. Tractor must be equipped with a minimum 2 bar roll cage.
103. Tractor must be equipped with a minimum of a four-point driver's restraint harness.
104. Tractor must be equipped with a fully charged fire extinguisher that is securely mounted to the tractor and within reach of the driver.
105. Tractor must be equipped with a scatter blanket or steel shield that is fully enclosed and bolted or welded together. Steel must be a minimum of 4 inches wide and .375 inches thick.
106. Tractor must be equipped with a forged steel or aluminum flywheel. Cast iron flywheels are strictly prohibited.
107. Tractor must be equipped with wheelie bars that are constructed with pads that are no higher than 10 inches from the ground and the furthest point of the pad must extend 2 inches past the furthest point of the rear tire. See Appendix A drawing for details.
108. Tractor must be equipped with an emergency shut off. Spark ignition engines must use an electrical kill switch and engines operating on diesel fuel must use an air shut off system.
109. Tractor must be equipped with removable side shields that fully enclose the engine. The side shields must be aluminum or sheet metal steel.
110. Drivers must wear helmet, fire suit, and flame-retardant gloves.
111. Tractor must be equipped with front axle skid plate, also known as front ski's designed to prevent a roll over in the event one or both front wheels breach from the tractor. The front axle skid plate must be mounted in line with each frame rail and extend from the center of the front axle forward (on both sides) and comprised of a minimum of .100" wall x 2" diameter mild steel tube or of equivalent strength material. The front axle skid plate must be securely mounted to the chassis. The front axle skid plate surface must be a minimum 4" wide and 12" long with a minimum 6" curve when measured from the front most part of the rolled edge. The front axle skid plate must support the weight of the front end when checked with a jack. The maximum ground clearance is bottom of the wheel rim but not to exceed 4" with front tires in normal operating position. See Appendix A drawing for details.

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Tractor Chassis Requirements

201. Six cylinder tractors can weigh no more than 6200 pounds.
202. Tractor must not exceed 12 feet from the center of the rear axle to the furthest point forward (including weights).
203. Tractor must be equipped with wide front end.
204. The center of the front axle must not exceed 12 inches past front edge of the grille.
205. Tractor may use tubular frame rails; however, they must be covered by sheet metal steel or aluminum.
206. Tractor's engine, hood, grille and rear end must be from the same manufacturer. Hood, grille and rear end must be from that particular make of tractor.
207. Tractors originally equipped with a hand clutch may be upgraded to foot clutch if desired. Foot throttle required for any hand clutch equipped tractor.
208. Exhaust pipe or headers must exit the hood vertically.
209. Tractor must be equipped with a hitch that is a minimum of 18 inches behind the center of the rear axle.
210. Tractor must be equipped with a hitch that is 1.00 inches thick, has an opening of 3 inches wide by 3.75 inches long and has 1.25 inches of material to the rear of the opening. See Appendix A drawing for details.
211. Hitch may be round or square.
212. Tractors classified as "Big Blocks" pursuant to Rule 302 may not exceed 20 inches of hitch height.
213. Tractors classified as "Small Blocks" pursuant to Rule 301 may not exceed 20 inches of hitch height.

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Engine & Transmission

301. Tractor engines that were originally manufactured with less than 370 cubic inches and do not currently exceed 460 cubic inches shall be considered Small Blocks. The following table illustrates approved Small Block engines by make and model:

Make	Model(s)	Engine Block	Engine Make
Allis Chalmers	190	301 CID	Allis Chalmers
Cockshutt	570	339 CID	Hercules
Ford	6000	300 CID	Ford
International	460, 560	301,310, 360 CID	International
Massey Ferguson	1100	354	Perkins
Massey Harris	203	339	Continental
Oliver	77, 88	310, 320	Waukesha

302. Tractor engines not meeting Rule 301 shall be considered Big Blocks and shall not exceed 810 CID. The following table illustrates approved Big Block engines by tractor make and model:

Make	Model(s)	Engine Block	Engine Make
Allis Chalmers	190	426 CID	Allis Chalmers
Case	900, 930	504 CID	Case
Cockshutt	570	478 CID	Hercules
Ford	6000	401 or 474 CID	Ford
International	460, 560	466 or 501 CID	International
John Deere	4010	404 or 466 CID	John Deere
Massey Ferguson	95, 97	504 or 800 CID	Moline
Moline	GBD, GVI	504 or 800 CID	Moline
Oliver	77, 88	478 CID	Hercules

303. Engine and transmission combinations listed in Rules 301 and 302 may upgrade sheet metal in accordance with the following:

Make	Upgraded Sheet Metal
Allis Chalmers	D-21
Case	1070
Cockshutt	1800, 2050
Ford	8000
International	656, 706, 756
John Deere	4020
Moline	G1000
Oliver	1600, 1800, 2050

304. All tractor engines must be naturally aspirated.

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305. Tractor must be equipped with a cast iron agricultural cylinder head from the manufacturer of the engine.
306. Tractor must be equipped with stock appearing shifter for that make and model.
307. Tractor may not use an auxiliary transmission.
308. All engines are subject to random pumping to measure CID compliance.
309. A tractor and engine combination not listed above in Rules 301 or 302 must be approved by the inspection committee and ratified by membership before pulling.

Fuel System

401. Tractors may use 4 basic fuels: gasoline, diesel, alcohol and L.P.
402. Fuel must pass random fuel tests. Non-nitromethane and non-polypropylene oxide based oxidizing additives or accelerators are permissible in all fuels provided:
 - A. the specific gravity of the gasoline fuel mixture is less than .755 @ 60° F;
 - B. the specific gravity of the methanol fuel mixture is less than .800 @ 68° F; or
 - C. the specific gravity of the ethanol fuel mixture is less than .820 @ 68° F.
403. Unless otherwise authorized by Rule 405 (B) or (C), the carburetor must be a manufactured updraft single barrel. Carburetor must have been manufactured with a throttle bore no larger than 3.1875 inches. Modifications to the inside of the carburetor are authorized; however modifications to the outside of the carburetor are prohibited.
404. Big Blocks must only use a carburetor detailed in Rule 403 with a modified throttle bore no larger than 3.3125 inches.
405. Small Blocks may use one of the following:
 - A. One carburetor as detailed in Rule 403 with a modified throttle bore no larger than 3.3125 inches;
 - B. One downdraft four barrel carburetor of any size. Predator™ carburetors are prohibited. Air horn shall be unaltered;
 - C. Not more than three down draft two barrel 500 CFM carburetors. Air horn shall be unaltered; or
 - D. Fuel Injection using a single throttle body air valve with a throttle bore no larger than 4.000 inches in diameter. Throttle body air valve may be oriented in any position.
406. Big Blocks and Small Blocks meeting Rule 405 (A) or (D) must be equipped with intake manifolds that are designed for one single barrel updraft carburetors. Small Blocks meeting Rule 405 (C) must be equipped with an intake manifold designed with a common plenum.

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407. Carbureted engines must have a fuel sampling port connected to the carburetor float bowl(s) and must drain fuel from the float bowl(s) only. The fuel sampling port must be accessible without removing the side panels, hood or grill. Fuel injected engines must have a fuel sampling port connected to the fuel injection distribution manifold or fuel injection return system and must drain the fuel contained within the fuel injection system. The fuel sampling port must be easily accessible without removing the side panels, hood or grill.

Rear Tires

501. Tractor must be equipped with bias ply rear tires no larger than 18.4 x 38.
502. Manufacture's size must be visible and legible on each tire.
503. Tractor may be equipped with cut or uncut tire tread.

Miscellaneous, Compliance & Sanctioning

Membership has ratified the creation of an Inspection Committee who has the authority to measure compliance with the Tri-State Tractor Pullers Association Rules and manage infractions.

901. Each Tri-State event winner will be subject to a compliance inspection by the Inspection Committee.
902. The Inspection Committee has been delegated the authority by the Membership to handle infractions by following the process outlined below, unless otherwise directed by a majority of the voting membership:
 - A. Tractors not meeting Rules 102, 103, 105, 106, 107, 108, 109, 111, 201, 212, 213, 301, 302, 304, 401, 404, 405, 406 and 501, and drivers not meeting Rule 110 will not be eligible to compete until compliance with the infraction Rule has been achieved.
 - B. Tractors not meeting Rules 101, 104, 209, 210, 407 and 502 will be expected to remedy these infractions before competing at the following Tri-State event or on a schedule that is approved by the Inspection Committee.
 - C. Drivers whose machines are discovered after the fact not meeting Rules 106, 301, 302, 308, 401, 403, 404, 405, 406 and who have already competed may be subject to a 366 day suspension from the Tri-State Tractor Pullers Association pending a majority vote from the Tri-State Tractor Pullers Association.
 - D. All other infractions will be under the discretion of the Inspection Committee for appropriate remedy. If a majority of the Membership dissents with the Inspection Committee, the Tri-State Tractor Pullers Association President will decide on an appropriate remedy.