

Indoor pull classes

SAFETY RULES: (Applies to all classes)

1. Each tractor will be inspected by the Technical Committee. The committee will make the final decision as to which Class the vehicle conforms to. and/or whether or not it meets the safety standards.
2. Helmets (half or whole) must be worn by all drivers during the pull (full face helmets are recommended). Helmets must be D.O.T. rated, strapped, and fit properly. Pullers must wear appropriate shoes e.g., no flip-flops.
3. Drivers shall wear SFI approved single layer fire suits for any alcohol-burning tractor regardless of class. Full body coverage is required (Top & Pants) all fire suits shall be securely fastened (zipped up).
4. No driver shall bounce on the seat or stand for any reason while pulling. Driver will keep at least one hand on the steering wheel at all times during the pull.
5. Nothing shall extend more than 3” beyond the outside of the rear tires.
6. Modification of tractor controls is required to fit the driver.
7. Open to two-wheel drive, rubber tired tractors. No dual wheels, chains, or spikes.
8. ALL tractors must have sufficient shielding of belts, chains, etc. to deflect flying parts to the ground. All vehicles must have functional brakes and steering. Stock tractors must have reverse, and all exhaust pipes (if other than stock) must point up plus or minus 10 degrees.
9. Dead man throttle require for all classes except Economy Stock and B Stock.
10. All tractors are required to have a kill switch (with a 1” ring) that will kill engine and fuel pump located on back of tractor within 6” of center. See individual class rules for specific requirements regarding electric fuel pumps.
11. All children in the pulling area shall be supervised at all times. There shall not be any climbing on or playing around the tractors and equipment used for track maintenance.
12. There will not be any “pullbacks” by the sled. This is because the sled operators have a difficult time steering the sled when pulling a tractor back and it is deemed unsafe.

GENERAL RULES:

1. Minimum age requirement for stock classes is 5 years old and for all other classes is 12 years old and/or have at least 1 year prior experience in stock classes. The tech committee will conduct driving tests as they feel necessary to ensure that each puller is capable of safely operating their tractor.

2. All tractors must weigh in for each class. Starting numbers will be drawn randomly at the time of registration. You must register for the class you wish to pull in before it begins.
3. All placing tractors must re-weigh after each class, if not, you will forfeit your winning position if it is contested (this will be at the discretion of the Club Officers and Tech Committee at each event).
4. Length of track will be 200 ft. maximum, 20 ft. wide whenever possible. No one will pull unless a field judge (flagger) is in place at the time of the hook.
5. Each puller in each class will have one pull only per heat, unless he/she does not reach the 25 foot mark (shutdown rule: the puller must make it known to the flagger and or sled operator of his/her intent to shut down within the 25 foot shutdown distance by raising one hand or equivalent). You must come back right away.
6. The competitor pulling in the 1st position of each class, determined randomly at time of registration, is considered the test puller. Once the weight transfer on the sled is considered correct for that class the test puller may: A) accept their pulled distance; B) refuse their distance and immediately hook up for one more attempt; or C) refuse their distance and pull in the third position. Third position is considered to be after the next two (2) competitors have pulled. It is the test puller's responsibility to inform track officials of their decision as soon as possible. (Note: dropping back to last position is prohibited unless due to mechanical reasons at which time must be authorized by a member of the Technical Committee.)
7. The drawbar will be 13" from the ground to the top of the hitch (unless noted different in class rules) and solid to the tractor with no up, down, or horizontal movement. No clevis. Hitch must consist of a horizontal plate or equivalent with the hitch hole perpendicular (looking through the hole you will see the ground) to the ground plane. Drawbar must be no more than 15" from the center of the axle to the rear of the tractor to hitch point. Rear engine tractors are the one exception, with the hitch being as close as possible to the engine. Hitch must be easily accessible for the hook. There shall be ample clearance without any obstruction from weights etc
8. The hitch must have a minimum of a 1.5" hole (a 1.500 dia. steel ball shall pass freely through the hitch hole) No hydraulic or electric hitch systems are allowed. Hitch point must be to the rear of the rear axle centerline.
9. Tractors must have wheelie bars, which will be no more than 5" from the ground, must extend 4" minimum behind the exterior of the rear tires, must have a minimum of 1" square pad or wheel at ground contact point, and must be able to support the weight of the tractor and driver.
10. Tear down or other testing may be done to verify that the tractor is registered for the correct class. Driver/owner and two (2) members of the Technical Committee shall be present.
11. All tractors shall be normally aspirated. Superchargers, turbochargers, nitrous oxide injection or any other type of fuel or additive injection or forced induction is prohibited.
12. In the event that the puller's kill switch is accidentally pulled, the puller will be allowed to come back immediately for a new hook or take the distance they have. This applies to all classes.
13. In the event there is no reading from the sled monitor, the puller will come back immediately. This applies to all classes.

Economy Stock 1050lbs

1. Stock wheel base. Stock frame. Hood, grille, fenders, foot rests required. No Half-Pint frames or drop boxes.
2. Tractors may have driveline parts strengthened for durability, but maintain O.E.M. style.
3. No electric fuel pumps.
4. Stock air cleaner assembly.(No alterations)
5. No velocity stacks.
6. Stock fly wheels only. No cutting, welding, or added weight.
7. No electronic ignition. Chevy points are allowed.
8. No added spinning weight to the crank.
9. Max tire size 23x10.50x12". No cutting allowed.
10. Stock appearing carb up to 1 inch (no aftermarket carbs)
11. 4000 RPM max (zero tolerance)
12. Stock front end in stock location and must pivot.
13. OEM valve size in the stock location.
14. Engines may be replaced up to 14 HP max, 1 cylinder flat head air cooled only.
15. Stock head no LP head, no billet heads, no aftermarket recast heads, and no welding of the stock head.
16. All engines must have proper OEM type shrouding.
17. Stock OEM governor set up.
18. Weight is 1050 lbs.
19. Must have kill switch.
20. Front tires no smaller than 3.50x6, tri ribs permitted.
21. Max cam lift .330"
22. Muffler or open exhaust must be vertical plus or minus 10 degrees
23. FUEL - VP C12 green in color only.
24. 72 inches overall length from the center of the rear axle to the farthest point forward including weights.
25. Stock stroke max 3.25"
26. No piston pop up
27. Port and polish allowed
28. No lockers or spools allowed. Limited slip is allowed if it was a factory feature for the model registered.
29. Max bore 3.530"

Max Stock 1050lbs

- 1) Must be stock block Kohler, Briggs or Tecumseh single cylinder, flat head engines 15 hp and under, with nine bolt heads. Max. 4000 rpm. Foot or hand throttle permitted.
- 2) The engine must look stock on the outside. Must have stock stroke for engine, all other internal modifications are acceptable. An access hole over the piston is recommended for checking purposes. Aftermarket points and electronic ignition allowed.
- 3) The head may be aftermarket or billet. Head bolts must match a stock OEM head gasket. A scatter shield covering the entire width and height of the engine and securely fastened on the OPPOSITE side of the cam side of 1/8" steel or 3/16" aluminum is required. A head restraint of 1/2" steel or 1" aluminum securely fastened is required.
- 4) Steel or OEM cast flywheel with no cutting, welding, or adding weight.
- 5) Carburetor must be stock carb for engine or a Kohler or Walbro, carb spacers, velocity stacks and bottom adjusts are acceptable. Maximum venturi diameter of 1.00". No high performance fuel pumps.
- 6) Exhaust pipes, with no muffler, must discharge vertically, 12" minimum from center of bend.
- 7) 26 x 12.00 x 12" max. rear tire size, permitted. Pro pulling tires and cutting allowed. After market wheels permitted.
- 8) Maximum 13" hitch height.
- 9) Must use a garden tractor frame and transaxle, but may be modified for engine installation. Sheet metal may be changed. No portion of any tractor may exceed 7 feet forward of the center of the rear wheel, including weights. 52" wheelbase maximum. Front axle may be altered.
- 10) Engine tech items will be RPM with no tolerance, stock stroke, exterior appearance and no alcohol. If engine is other than K-Kohler you must supply tech person with a stock head gasket for your engine.

16hp 4000 RPM 1050lbs

Stock appearing tractors with standard type 1 or 2 cylinder engine or equivalent replacement and stock appearing drive train for make and model.

Transmission must match the stock frame being used , changing of oem appearing sheet metal make is allowed

Gasoline only. No alcohol or additives permitted. Maximum specific gravity

of .750 (random testing will be done).

23 x 10.50 - 12" maximum tire size. Any bar or turf tire. NO CUTTING permitted. No pro puller tires.

6, 8, or 10" diameter front rims. After market rims and 3 rib tires permitted. Must maintain factory stance (no lowering).

13" hitch height, 16" maximum from center of rear axle to hook point. 1 1/2" diameter hole for sled

hook, 1/2" thick at point of hook.

4000 RPM at full throttle 0% tolerance also OEM governed.

Stock stroke and .030"

maximum overbore for engine used .

Must have cast camshaft (NO steel). Maximum valve lift: .330".

OEM cylinder head only. *No welding or modifications. Must maintain original thickness except for surfacing. Copper Head Gaskets allowed.* NO aftermarket heads.

OEM valve seats and valves for factory rated H.P. of engine model being used.

Valves must remain in stock location in the block.

Bolt on filter adaptors are allowed maximum 1?

Original carburetor for engine used. NO spacers.

NO moved throttle shafts. 1.000" maximum venturi diameter. NO recast carburetors.

Chevrolet style points are allowed

Steel flywheels allowed but not required. NO cutting, welding, or adding weight to flywheel.

Must have reverse gear unless not original equipment.

All overhead engines must use OEM valve train components. (The owner is responsible for tear down to prove legality if required.)

Tech requirements: Removal of head, fuel pump/cam cover, and/or fuel lines for components and fuel

checks as requested. Refusing to comply with tech check is automatic disqualification.

Tech and class limits are subject to event host allowances

B Stock

1. 14.1 to 25 horsepower single or twin cylinder four cycle engines
2. Factory OEM block

4. Stock cast heads, no billet heads.
5. Engine must be controlled by a properly functioning governor to no more than 4000 no load RPM, when contacting a positive stop on the block.
9. Porting and polishing allowed.
10. Reground cams allowed.
11. Butterfly type carburetor with 1.200" venturi maximum.
12. No spacers between block and carburetor other than the stock intake manifold.
13. Choke plate optional.
14. Velocity stacks and after-market air cleaners allowed.
15. Electric pumps allowed must be killed by kill switch.
16. Tractors may have driveline parts strengthened for durability, but maintain O.E.M. style.
17. Maximum length shall be 72" from centerline of rear axle to farthest point forward including weights. Maximum wheelbase is 52".
18. Switching sheet metal from one make to another is allowed. All tractors must have hood, fenders, grille, seat and footrests, and must maintain OEM appearance.
19. No half-pint style frames allowed. No drop boxes allowed.
20. Fuel for Stock classes shall be VP Racing # C-12, green in color.. No additives are allowed.
21. Tractors must have on-board starters, no starter carts allowed.
22. Spools / locked rears and limited slip differentials allowed.
23. Maximum tire size 23" x 10.50" x 12". Non-professional, non-cut, garden tractor tires only. Turf tires recommended
24. All engines must have proper OEM type shrouding.
25. Engines with more than 40 cubes will run 1050lbs with a 12 inch hitch height. Engines with less than 40 cubes will run 1050lbs with a 13 inch hitch height.

Sport stock

1. Transaxle housing and chassis must be OEM available in a commercially produced garden tractor.
2. No aftermarket multi-range gear box.
3. Engine must be OEM available for lawn and garden. No automotive, motorcycle, ATV, marine, snowmobile, etc, type engines allowed.
4. Tractor must have stock appearing hood and grill (nose piece). Switching to another factory sheet metal is permissible.

5. Maximum wheel base is 52 inches.
6. Maximum distance from center of rear axle to farthest point forward is 96 inches.
7. No additional power source attached to drive line.
8. Flywheel and clutch must be shielded with stock shields or 1/8 inch steel or 3/16 inch aluminum 360 degrees.
9. Single cylinder tractors not running stock side panels need to be shielded with 1/8 inch steel or 3/16 inch aluminum plate opposite cam side height and width of block. This plate would need to be mounted with two bolts to the frame and at least one bolt to the head.
10. Wheelie bars must be rigid in all directions and able to support the tractor and driver in the heaviest class.
Each skid shoe must be a minimum of 1.5"x 2" or the use of 5" round wheels 1" wide is allowed. Tractor must have 2 skid shoes or 2 wheels. The wheelie bars must be a minimum of 5" from the rear most part of the tire and maximum of 10". The bars must be a maximum of 5" from ground to bottom of skid shoes or wheels. A vertical bumper bar 6" in height in rear most position is required. Weights on back of tractor must be contained up to 1" before end of the wheelie bars.
11. Maximum hitch height is 13". Must provide own clevis or straight flat plate with 1 1/2" hole with a dead man zone of 3" on each side of the hitch. Hitch must be rigid in all directions. The kill switch must be centered approximately 10"-12" above the hitch in this area.
12. ALL TRACTORS MUST HAVE a minimum of 1 lb fully charged fire extinguisher on board in reach of operator. A functional gauge on the fire extinguisher is REQUIRED.
13. ALL TRACTORS MUST HAVE rear fenders extending a minimum of 4 inches out over the tires. OEM fenders are acceptable. It is recommended that foot well and rear fender be attached to avoid the possibility of operator's foot being pulled through to come in contact with tire.
14. ALL TRACTORS MUST HAVE at least a 3 inch seat back.
15. a. One or two cylinder, flat head or overhead valve, naturally aspirated, carbureted, cast block, four cycle gasoline engines.
b. Naturally aspirated Diesel engines up to 42 cubic inch and up to 3-cylinder allowed.
16. Engine blocks must remain stock appearing on the exterior.
17. Stock intake manifolds must be used on all engines.
18. In all engines the following engine components must remain in original position:
 - a.

Crankshaft

b.

Camshaft

c.

Valves

d.

Rocker arms.

19. Stock valve diameter must be maintained for all engines.

20. Engine RPM's must be controlled by mechanical governor. Maximum limit: 4500 RPM for Gasoline engines and 4000 RPM for Diesel engines.

21. ALL TRACTORS MUST HAVE a functional breakaway kill switch to cut ignition and fuel pump. Diesel engines MUST HAVE air shut off to cut the engine, as well as electronic fuel pump disconnect.

22. All Tractors must have a "dead man" throttle. Throttle must return to the idle or closed position when the pedal or lever is released.

23. Exhaust must discharge within 10 degrees of vertical.

24. No aftermarket cylinder heads for overhead valve engines. Flat head engines have a maximum total engine displacement of 48 cubic inch. Billet aluminum heads are allowed for flat heads.

25. Carburetor airflow must be controlled by a throttle shaft actuated butterfly. Carburetor must be stock appearing, lawn/garden type.

26. Intake tract must pass thru a maximum 1.2 inch diameter round restricted area or equivalent.

Explanation:

a.

One barrel carburetors may be a maximum 1.2 inch diameter.

OR

b.

Two barrel carburetors may be a maximum .866 inch diameter per barrel
AND

c.

No air may enter intake tract downstream of the 1.2 inch (or equivalent) restriction.

27. No electronic rev limiters

28. Gasoline only for gas tractors.

29. Engine blocks must be clearly marked with the engine model number. Valve cover tag with engine displacement must be in place for engine identification.

30. Diesel fuel only

31. No other injection will be allowed. (water, propane, alcohol, etc.)
32. Stock manifolds only.
33. No ice boxes or intercoolers.
34. Maximum tire size: 26 x 12.00 x 12
35. Pro Tires allowed.
36. weight class and hitch height will be as followed. 38.8 cubic inch and smaller ohv, 48 cubic inch flat heads, and diesels will run 1100lbs with a 13 inch hitch height. Anything with bigger cubic inch will run 1050 with a 12.5 inch hitch height.

Light pro

1000lbs 13 inch hitch

Nitro 30 cube run at 1000 lb 12.5" hitch

Alcohol 30 cubes can run at 1,050 lb 13" hitch

Single Cylinder four cycle flat head engines only.

Engines must be Kohler, Briggs, Tecumseh or Wisconsin

Blocks must have an OEM appearance, Midwest stock altered blocks allowed.

OEM factory deck height

Stock head bolt pattern, stock head gasket must fit over studs.

37.50" Cubic inch limit

1.20" maximum carb size, no air entering after 1.20" restriction, venturi must be round in shape.

No reverse port engines allowed, carb must bolt to the original intake port

Carburetor must be stock appearing kohler type

Billet heads allowed

Porting and polishing allowed

Alcohol only

13" hitch height

Port welding allowed, but no bore welding

All General rules apply

Super stock

50.5 CUBIC INCH LIMIT

Any type of Naturally Aspirated induction is permitted.

All pro stock rules apply except carburetion.

Compact Diesel Pro Stock

(1) Engine will be no more than 3 cylinders. May be liquid or air cooled. .

- (2) Engine will be no more than 75 cubic inches
- (3) Water injection will be allowed.
- (4) Engine modifications are permitted = Rods, Pistons, Cam, Fuel system.
- (5) Head work is permitted on stock heads. No Billet heads. No overhead cams.
- (6) Injector and injector pump modifications allowed. No Billet injector pumps.
- (7) Turbo charging is permitted, but limited to one turbo only.
Turbo will be fitted with a shut down guillotine on the compressor inlet side of the turbo. Exhaust ?L? of turbo must have minimum of 5/16 cross in elbow with exhaust to discharge vertically
- (8) Electric fuel supply pump is permitted with positive power wire to have disconnect at rear of tractor
- 9) No propane or nitrous of any kind will be permitted.
- (10) Stock frames or stock appearing frame rails with full hood, grill and side shields will be permitted- No tube frames. Chassis may be modified to accept engine.
- (11) Must use a lawn mower rear end / transaxle. No cut down automotive rear ends or Panzers
- (12) Full metal side shields to cover engine area (minimum 16 gauge)
- (13) Must run 5/16" cable around oil pan over top of valve cover in a complete circle connected with cable clamps
- (14) Must run steel flywheel and front engine pulleys should also be billet steel or aluminum, no stamped steel, cast iron or cast aluminum pulleys.
- (15) Clutch assembly and fly wheel must be surrounded 360 degrees with 1/8" metal or 3/8" aluminum
- (16) 56" wheel base max.
- (17) 7 feet from center of rear axle to front most portion of weights
- (18) 13" hitch height.
- (19) 26" x 12 x 12 tires max.
- (20) 1100lbs. Weight class.
- (21) Dead man throttle required.

- (22) Kill switch device mounted on rear of tractor must disconnect power to electric fuel pump along with activating turbo guillotine
- (23) Min. of 1 lbs fire extinguisher required.
- (24) Wheelie bars are required, same specifications as all other classes.
- (25) Engine block must have factory casting model and serial numbers, not ground off
- (26) Full faced helmet required
- (27) Engine must have OEM intake manifolds and exhaust manifolds, polishing is permitted

Mod Twin

1050#

OEM produced 30 HP engines (Kohler, Briggs, Tecumseh, Onan etc.), no after market blocks.

Crankshaft and camshaft must be in original position.

Any bore, stroke, valves, cams, etc. are permitted. Welding and cutting to jugs or blocks is allowed.

Billet or recast heads permitted.

Ungoverned engines must use steel (or aluminum) flywheel.

Cast flywheel must be governed to 4500 RPM maximum.

All flat head engines must have head plates or straps. Min. of 1/4" x 2" steel or 3/8" x 3" aluminum.

Tractors must have NQS legal sideshields 1/8 steel or 3/16 alum.

Any type of naturally aspirated induction is permitted.

Manifold may be home made.

Electronic Fuel Injection NOT allowed

Deadman throttle spring mandatory.

Flywheel and clutch components must be shielded with 1/8" steel or 3/16" aluminum.

26 x 12 -12" rear tires maximum. Pro-Puller tires allowed

Racing Gasoline or Alcohol allowed. No additives. After market fuel pumps allowed.

13" hitch height, 16" maximum from center of the rear axle to hook point.

1 1/2" diameter hole for sled hook, 1/2" thick at point of hook.

Max Wheelbase is 56" Maximum length of tractor is 8 foot from centerline of rear axle forward.

Tractor must have a hood & grill, Mix & match allowed.

Rear-ends must be of a lawn and garden type, but may of a different manufacturer.

Transmission gear ratio changes or different dia pulleys are allowed.

Reverse not required.

Welding and cutting permitted on frames.

Rear fenders required. Fabricated fenders must be able to hold the weight of the driver.

NOTE:

We will now allow Governed Twins to compete in this class at 6000 RPM and weighed in at 1100 lb as a weight break to compete in this division.

Governed tractors will be limited to OEM heads and a single 1.2 " Carb

Pro/Super/Twin

1. NQS Pro Stock at 1050# with 13" hitch and NQS Super Stock at 1025# with a 12.5" hitch. Mod Twin tractors run 1000# and 12" hitch.

2. 48 cubic inch stock appearing block K-series Kohler engines will be allowed to run with the same weight/hitch as the Pro Stock. 48c.i. engines will have the same rules as the 50.5 Pro stocks, with the following exceptions. Stock Appearing Block K-Series Kohler Engine, open carburetion (no fuel injection), external welding allowed on the blocks (allthread okay), if engine is sleeved, sleeve cannot be externally visible. Must have head/block restraint.

Outlaw 1200lbs

1. Must run factory appearing hood and grill (nosepiece) and rear fenders.
2. No more than 72" long from center of the rear axle to the furthest part forward including weights.
3. No more than 54" wide including weights.
4. Maximum tire size 26" x 12" x 12". Cut tires and professional pulling tires allowed; i.e. Dick Cepek, LawnTec, etc.
5. Maximum of four (4) cylinders. No automotive engines.
6. Must be naturally aspirated.
7. Mufflers required.

Diesel

We're going to try something here. We're running the limited pro stock diesels and the pro stock diesels together. Limited pro stocks will be at 1150lbs with a 13 inch hitch. Pro stocks will be at 1100lbs with a 12 inch hitch.