

# Hudsonville Fair

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## 6500 Limited Light Super Stock Tractor Rules

### ENGINE

1. Tractors must use OEM engine block or its factory replacement as listed by the manufacture. The engine block cannot be modified externally in anyway except for normal repair of for the mounting of fuel injection pumps. Internal webbing and water jacket to remain intact with provisions to rebore engine block be provided.
2. Engines must be stock appearing with the exception of exhaust and fuel systems under the hood. No overhead cams. No aftermarket Aluminum or Hemi-style heads allowed. Maximum of 2 valves per cylinder.
3. Maximum limit of 470 cubic inches (diesel engines). Single turbo 3" x 4" max. Engines up to 505 cubic inches (diesel) shall have a max 3" x 3" small foot turbochargers.
4. Maximum limit of 370 cubic inches (alcohol engines). Single turbo 3" x 4" max.
5. Diesel engines under 315 cubic inches may run two compressor stages, each at 3" x 4". Engines may run an intercooler. Engines above 315 CI may only run one turbo charger.
6. Maximum limit of 410 cubic inches (diesel engines). Engines may run an intercooler. Single turbo 3" x 4" maximum.
7. Engines below 410 cubic inch may run an intercooler.
8. Turbo charger legal measurement will be determined using the following guidelines. The intake compressor housing will be no larger than 3.0 inches in diameter measured at the front face of the wheel. Turbine wheel must protrude at least 1/8" into the housing. Exhaust housing will be no larger then 4.0 inches in diameter. No step down intake or exhaust housings. No secondary source of intake air or slots of any kind allowed. Housing slots must be permanently disabled by being welded shut. No temporary inserts or slugs allowed.
9. No pressurized fuel additives allowed in addition to the primary fuel system (fuel pump). There will be no fuel tanks pressurized under any conditions (except LP gas when used as a primary fuel).
10. Only Gasoline, Diesel, Alcohol, and LP gas may be used for the production of power. Nitrous Oxide and or Nitro-Methane mixes are not allowed in any form.
11. Electric or mechanical fuel pumps, and after market distributors and ignitions may be used. Automotive carburetors up to 1150 CFM allowed. After market Diesel and Alcohol injection pumps allowed. Only one plunger per cylinder allowed.
12. Water injection is allowed. Water & soluble oil mix only, no alcohol additives.
13. Exhaust must discharge vertically. Two 3/8" diameter bolts positioned 90 degrees to each other and maximum of 1" apart horizontally in the exhaust outlet. No rain caps or curved outlet on pipes.

### CHASSIS

1. Tractors must maintain stock appearance for make/model, except where rules allow. No Component tractors allowed. Engine must be located in stock position with a minimum of 1" thick adapter plate allowed. The tractor chassis and frame must remain stock from the rear of the engine block to the rear of the tractor. The clutch housing, transmission case, rear end housing and axle housing must be OEM. No aluminum replacement parts allowed for these components. Aluminum top plate and access covers are allowed.
2. Sheet metal may be upgraded with Executive Board approval. Upgrade cannot cross manufacture lines. For example IHC to Case IH is ok. Case to John Deere is not. Note: Sheet metal upgrades do not automatically allow for engine manufacture upgrades with regard to successive company mergers, see CHASSIS rule #4.

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3. Maximum of 114" wheelbase, unless originally produced with longer wheelbase, then must remain stock length. The maximum length of tractor is 13 feet from the center of the rear axle to the forward most position (excluding tow hook).
4. Chassis/Engine rule will apply to the original chassis, not to the model of the upgraded sheet metal.
5. Tractors must be equipped with a wide front end. Homemade front ends will be allowed provided the strength and minimum width requirement is met. Outside edge of front tire must track on inside of the rear tire.
6. Hitch must have at least a three 3 by 3.75 inch diameter opening and cannot be more than 1 ½ inches wide at hitch point and not more than 1 ½ inches thick. Tractor drawbars are to be 20" from the top of the hitch device to the ground. The minimum drawbar length is 18" from the center of the rear wheel to the point of the hook.
7. Weights must not exceed rearward beyond vertical line formed by the back edge of tire.
8. Ag style tires up to 30.5 x 32 in size, with any cut style will be allowed.

## SAFETY EQUIPMENT REQUIREMENTS

1. Tractor can weigh up to 6500# but must have 300# movable weight.
2. Tractor must be equipped with a Billet Flywheel. Absolutely NO castor gray iron flywheels can be used. All clutch components must be SFI rated
3. Tractor must have an NTPA approved bell housing/transmission Safety Blanket.
4. Tractor will be equipped with a 5 point harness and have an approved Roll Cage with minimum of 2 Bars using at least .120 thick tubing
5. Wheelie Bars are mandatory. Pads must extend a minimum of 1" beyond the vertical line formed by the back edge of the tire and can not be more than 10" off of the ground. Bars must support the weight of the tractor when a jack is placed under each individual pad. In addition to wheelie bars the tractor must also have bump bars that extend vertically 12" from the rear most tip of each skid pad. Bump bars must have a support brace extending inward to the frame, axle or main stabilizer structure.
6. Electric cooling fans only, no steel fan blades. Tractors will have Side Shields of .060 metal (min.) Turbochargers must be under the hood or will be completely shrouded by not less than 1/16" thick steel, except for the inlet and exhaust pipes. All turbochargers under fiberglass hoods must be shrouded.
7. Engines must have a 3/8" safety cable installed around head and engine block. Cable will pass between number 1 & 2 cylinder and must be secured by 2 cable allowing 4" – 6" slack.
8. Tractor must have a safety starting device so that the tractor is only able to start while in neutral and or park.
9. Tractor must have fenders capable of holding the driver's weight off of the tire.
10. Must have a working Kill Switch/Breakaway Mechanism securely fastened to the rear of the tractor. Gas tractors Kill Switch must ground to the spark, Diesels must shut down the air at the intake source.
11. A dead man throttle is required. Spark ignition engines must utilize a return spring on the butterfly shaft. Diesel engines must utilize a return spring on the fuel injection pump, speed control lever. Return springs must function in a manner that if the operator's control cable or linkage fails or becomes unhooked, positive return to low idle will occur.
12. Tractors must have a 3-way shut off valve on the fuel tank, Battery disconnect switch, and a minimum of 2.5# Fire Extinguisher. All must be accessible and in working order.
13. Tractor must be equipped with a white (clear) transmission reverse light mounted on the rear indicating anytime the transmission is shifted into reverse.

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14. Driver must wear a DOT approved helmet. A minimum of SFI 3-2A/1 fire suit including gloves and head sock and SIF 3.3/5 driving shoes.
15. Tie-bars linking rear-end of tractor to front frame must be present. Tie-bars shall be strong enough to hold tractor up with all belhousing bolts removed.