

SECTION IX

General Rules for Super Farm Stock Tractors

No computers will be allowed that will control any mechanical operation of the pulling vehicle.

Brakes

All competing vehicles must be equipped with working rear wheel brakes.

Drawbars

Drawbars shall be constructed so that in the event of drawbar breakage, the drawbar supports do not pull from a top link or brace above the centerline of the rear axle of the vehicle. A drawbar, which has provisions to be shorter than legal length is not acceptable as a legal drawbar. Any vehicle with the drawbar hold up device above the centerline of the rear wheels must have a single pin breakaway type (slide out) drawbar.

DRAWBAR HEIGHTS AND LENGTHS:

Drawbar cannot be shorter or higher than specifications listed below. Drawbar lengths are measured from the center of the rear wheels to the point of hook.

<u>CLASS</u>	<u>Height</u>	<u>Length</u>
Super Farm Stock Tractor	20"	18"

Drawbars must be rigid in all directions. All drawbars must be parallel to the ground.

All drawbars and hitching devices will be steel in all weight classes.

All vehicles must meet the following: Drawbars to be a minimum of 2 square inches total material (steel) at any point. Any pin will be a minimum of 7/8". Drawbar must be equipped with a steel hitching device not more than 1-1/2" x 1-1/2" square (1-1/2" round stock), and with a 3" round hole, maximum of 3-1/2" round hole.

No portion of vehicle may interfere with sled, chain or hook during a pull or while being hooked or unhooked.

Area 6" wide and 12" high immediately above the drawbar must be free of all obstructions (including weights, wheelie bars), for ease of hooking and unhooking.

Drawbars and wheelie bars are bit to be connected.

No trick hitches, no cam type ends. Drawbar distance from the center of rear axle cannot change during pull.

All tractors required to have a tow hitch on the front of the vehicle. The hitch can extend a maximum of 6" ahead of the further most front portion of the vehicle, (hitch will not be counted in length when measuring vehicle). The hitch must have a 3" diameter hole, preferably positioned horizontally and strong enough to push or pull the vehicle at its heaviest weight. The device is to be used for no other purpose.

Clutches, Flywheels and Automatics

All tractors must have a safety blanket. The blanket should have a 6" overlap. Straps must be 2" wide, with not more than 1" spacing between straps. Straps to be fastened forward and to the rear of clutch/flywheel assembly. All straps must be securely fastened and the blanket must be secure against the rear of the block.

The flywheel, clutch and pressure plate cannot have any gray cast metal in their components. The flywheel may be either steel or aluminum. Pressure plate, floaters, and other clutch components must be steel. The clutch must be inspected and be SFI approved. If during the year the puller replaces clutch components, the clutch shall be SFI approved or re-inspected.

Chassis

All tractors shall have wide front axles. Front wheels shall track within the rear wheels.

Engines

Shielding on all farm-stock in line engines will be from sheet metal (hood) to 2" below center of crankshaft throw, and be securely fastened. They may be louvered, but no expanded metal. They must be 0.60" thick and made of steel or aluminum.

Starter motors, fuel filters, oil filters and fuel injection pumps may be used as shielding. Shielding may cover or pass behind starts or fuel pumps.

All Super Farm Stock diesel engines will be required to install a manual three (3) way dump valve with return back to the fuel tank. This valve must be located ahead of the injection pump, and manually controlled from the operator compartment.

All ether bottles (starting aids) must be placed outside of the engine compartment.

All blow-by tubes must exit forward of rear tires. Engine crank venting: All engine crank case venting "blow-by tube" must be vented below the head of the engine and extended down to the engine pan.

All pulling vehicles must be equipped with a dead man throttle. All throttles working in a forward-rearward direction shall be closed in the rearmost position. No hydraulic throttle linkage allowed. Just be positive, two-way, mechanical linkage. All foot throttles must have a toe strap.

All diesel engines must have an external visible return to idle spring on fuel injection pump throttle arm.

A bolt in the crankshaft to hold damper pulley is required.

Engines used in truck by manufacturer are classified as automotive.

Exhaust Systems

All exhausts must discharge vertically. Height to be a minimum of one foot above the bend in the pipe which discharges vertically measured from the top of the pipe to bottom of the bend. All exhaust pipes must be securely attached. Vertical is defines as being within 10 degrees (with 5 degrees variance), in any direction of being in plumb. Rain caps may not be used. No megaphone pipes allowed.

Turbocharged engines must have two (2) 3/8" grade 5 bolts in vertical position of exhaust pipe(s). Bolts to be installed 90 degrees to each other, within one (1) inch of each other.

Fuel and Fuel Containers

All kill switches must be mounted independent of drawbar and/or wheelie bars

All pulling vehicles must have an air shutoff, in working order at all times. Track official and/or tech inspectors must have the option of checking kill switches, as many times as they feel is adequate at any event.

The kill switch in all Super Farm-Stock tractors must be located in the rear center of the vehicle (maximum of 6" off center in any direction) 48" above the point of hook.

On all diesels, the kill switch must activate the air shutoff required on all diesel engines.

A cable may be used for this purpose, but must have positive type enclosed cable for the air shutoff. The cap must have spring loaded closing mechanism. Systems to be deemed acceptable must at least prevent building of boost. It is recommended that a basket/seal arrangement be used to more effectively shut off air flow. Door or rain cap-type air shut-offs (no butterfly type) will be required on all self-ignition engines with a separate control for driver. Control for driver not to be same as for sled.

The breakaway kill switches must have attached to them a minimum of 1/8" cross-sectional thickness. The cable from the sled will be attached to this ring.

Portion of the kill switch and mounting bracket(s) must be able to withstand 32 pounds of pull per switch when pulled independently or collectively.

Kill switch ring must be secured with a single nylon tie wrap (1/8"). The tie wrap must be broken for a repull. Addition: Competitor will be responsible for replacing the kill switch mechanism and securing the tie wrap once the kill switch is checked by tech official.

If vehicle has a kill switch or shutoff located in legal position, and during the pull it is pulled and the nylon strap breaks, and the presiding judge inspects and finds switch capable of operating properly under normal conditions, the vehicle will be allowed to repull immediately or drop six positions. Decision to drop Fire suits must be made before the vehicle leaves the track.

It is the puller's responsibility to see that an official check the switch before leaving the track.

All ignition engines must have a bar type master switch for all motors in working order within easy reach of driver.

All diesel engines must have a fuel shutoff valve control within easy reach of the driver (your normal fuel shutoff of diesel pump). All diesel engines must be equipped with an emergency shut down air shutoff at the air intake, which can be utilized from the tractor seat.

Safety

If residing official and tech official feel that a vehicle is unsafe, they have the right not to allow the vehicle to pull.

All pulling vehicles must be equipped with a minimum 2lb. dry powder type fire extinguisher, fully charged, in working condition and convenient to operator. It must also be fastened with a quick release latch.

All drivers must wear helmets. All helmets must be SFI approved. Loss of helmet is disqualification. All helmets must have chinstrap fastened while pulling.

All drivers in all divisions will be required to wear a 360-degree neck collar meeting SFI spec 3.3 or a Hahn's device.

Fire suits (jacket and pants), fireproof shoes and gloves and face sock will be mandatory for all drivers. Fire suits must meet the following requirements: All competing drivers at all events are required to wear a minimum protective clothing of SSFI 3.2 A-1 fire suit.

A qualified competitor must be seated in or on the vehicle when his/her engine or engines are being started and running and have complete control of the vehicle at all times. Only when the vehicle is hooked to the sled can the driver leave the seat with the engine running.

A reverse safety light system is required on all pulling vehicles. A white light automotive quality minimum 2" in diameter must be mounted directly above or below the safety kill switch at the rear of the vehicle. A light in the driver's compartment must be operated off the same system. Both lights are to be activated by a lever such that it will be lit only when the vehicle is in reverse.

All pulling vehicles must be equipped with a starter interrupter on the gearshift or on the clutch pedal, which will allow starter engagement only in a neutral gearshift position.

Seats and Fenders

All tractors must have a strong and rigid seat; all tip seats must be securely fastened while pulling. All seats must have side rails that are minimum 4" above the edge of the seat, must extend a minimum of one-half the distance from the back of the seat to the front edge, minimum strength equivalent to ½" pipe. If fenders are 6" or greater above the seat, and are 6" less from the seat, no seat side rails are required. Seats will be thoroughly inspected by officials.

All tractors must have a shield between the driver and the tire, (not necessarily fender), to consist of a solid barrier between driver and any part of the rear tires to be able to sufficiently support weight of the driver. The barrier must be minimum of 6" wide at the bottom, increasing to a minimum of 36" wide at the top and the barrier must curl a minimum of 6" from vertical out over the tire in the same configuration as the tire.

Fenders or tire shields must be constructed so that when the driver is seated and the hands are in the wheel, he/she cannot touch the rear tire with any part of his/her body.

Stabilizer Bars

Stabilizer bars (wheelie) are required. The drawbar and drawbar assembly will not in any way be attached to the stabilizer bar assembly. The stabilizer bars will extend past the rear most part of the rear tires and be no more than 10" off the ground.

Turbochargers

All turbochargers not under the hood must be completely shrouded except for inlet and exhaust pipes, with steel 0.060 or thicker. Turbochargers under fiberglass hoods must be completely shrouded with 0.60 metal under the area of the fiberglass, except for the inlet and exhaust pipes.

On all pulling vehicles the tubing on the pressure side of a turbocharger to the intake must be under the hoods or side shields to be bolted or strapped securely.

Tires

Contests are open to pulling vehicles with rubber tires. No four-wheel drive tractors allowed. No dual tires, tire studs or chains permitted. All power must be transmitted through the wheels.

Tire/Rim Safety Warning

A tire/rim assembly may burst with explosive force causing serious injury or death if:

- 35 psi cold inflation pressure is exceeded.
- The rim is welded without the tire first being removed.
- The tire is drilled or screwed onto the rim.

Weights

Weights must be securely fastened and no transfer of weights while the vehicle is moving will be allowed.

Weights must not extend rearward beyond rear tires for tractor classes.

Any ballast lost while hooked to the sled will be cause for disqualification. If weights touch the ground although they may still be attached to the pulling vehicle, vehicle will be disqualified (internal breakage accepted).

Rollover Protection Device

A rollover protection device is required on all tractors. Roll cages will be 1-5/8" minimum in diameter with 0.120" wall. They will consist of a minimum of two (2) loops and two (2) braces which attach to the main structure. A 5-point harness seat belt will also be required. No exhaust tubing is allowed in the construction of rollover protection device.