

## 11500 Hot Pro Farm Tractors

### Drawbars

- 1) Drawbars shall meet the following: drawbar to be a minimum of 2 square inches total steel material at any point. This includes the area of the pin with the pin removed. The pin will be a minimum of 7/8 inch. Drawbar must be equipped with a steel hitching device not more than 1.5 x 1.5 square, (or 1.5 round), and with an oblong shaped hole 3.75 inches long and 3 inches wide.
- 2) No drawbar support tubes attached above the centerline of the rear axle, unless using the stock drawbar support for that make and model. Absolutely no drawbar supports designed to pull only from, or to be attached only to a point above the centerline of the rear axle.
- 3) Drawbar maximum height 20"
- 4) Drawbar to be no shorter than 18"
- 5) Angel of draw bar is to be no greater than eleven degrees

### Clutches and Flywheels

- 1) SFI approved clutches and flywheels are required.

### Engines

- 1) Each competing vehicle must have a working RPM pick up on their vehicle. The cord must be wired uninterrupted to the rear of the vehicle and is to be mounted on the back of the vehicle directly above the drawbar area. The cord must be visible from the point of pick up to the rear of the vehicle. The cord must run outside of transmission blanket and all sheet metal. The cord must have a factory female end at the plug end. The pick- up MUST be in working order during competition. If a competitor's pick up does not work at an event, a competitor may be hand tached immediately after leaving the track after a competitive pass. A competitor must be tached trackside. If a competing vehicle leaves the track area before being tached, the vehicle will be disqualified.
- 2) If a competitor's pick up does not work at an event, they have until the next event to repair the problem. A competitor will not will not be eligible to compete 2 event entries in a row
- 3) Engine must be stock appearing for that make and model of tractor.
- 4) Engine must have standard block and crankcase (or manufacturers replacement) for make and model being entered. Chassis must conform to engine being entered, no visible engine modifications.

Any Cast or Manufactured cylinder head will be accepted. Cylinder head must retain OEM width and length for the engine application. Valves must retain OEM angle for engine application. Cylinder head must retain OEM bolt pastern for exhaust manifold and intake manifold.

- 5) Intake and exhaust manifolds must be O.E.M.
- 6) No external modifications of block allowed, other than for injection pump mounting.
- 7) P series pump will be allowed. P7100 maximum. Vehicles utilizing a P series pump larger than P7100 shall be limited to 100% factory rated RPM. Intake manifold modification on V8 cat engine will be allowed to mount p series pump. Electric fuel pumps are allowed.
- 9) Hot Pro Farm tractors can have an unlimited single turbo charger bolting to factory exhaust manifold.  
  
B Turbocharger must be reviewed by tech committee before competition season. If in season driver must notify tech committee prior to competing that day. No prize money or point to be awarded until inspection of turbocharger is completed. If found illegal the board of directors may penalize at their discession.
- 10) An allowance of (1) RPM is allowed for the 3000 RPM rule. A competitor is disqualified for any other infraction of the RPM limits. No entry fee or prize money will be refunded. Prize monies will go the IPA.
- 11) Intercoolers/icebox allowed on engines. H2O is the only contents allowed to be used in competition.
- 12) Safety cable around block minimum size half inch steel cable with a minimum of four cable clips.

### **Chassis**

- 1) Tractors are to be stock appearing.
- 2) Sheet metal upgrades allowed only by the consent and approval of the IPA Board. NO EXCEPTIONS!
- 3) Chassis must conform to engine being entered. Chassis includes clutch, transmission and differential housing. Original hood and grill must be in place. Maximum wheelbase of 114 inches unless originally produced with longer wheelbase, then must remain stock length. Maximum length 13 feet from the center of rear wheel to forward most portion. Alterations to chassis directly above the hook point will be allowed to accommodate minimum 18" drawbar length rule (from center of rear wheels to the hook point).
- 4) Competitors must run a SFI approved roll cage in Pro Farm. Competitors using a roll cage must wear a NTPA/ITPA harness, helmet, fire suit, and neck collar.
  - a) All competitors are required to utilize a 5 point driver restraint harness and driver seat mounted to the roll cage structure independent of the tractor chassis. The 5 point driver restraint harness must be a quick release design and be securely fastened during competition.
- 5) A reverse safety light system is required all competition vehicles. A white light automotive quality minimum 2 inches 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 shift lever such that it will be lit only when the vehicle is in reverse.

- 6) The IPA board must approve any non-factory front end.
- 7) Must have an approved seat and stock appearing fenders.
- 8) All tractors must either run safety tie bars mounted to rear axle housing with at least four axle housing bolts and extending forward to flywheel area and fastened to side of block or main frame with at least two 5/8 inch bolts, or a one piece frame extending from front of tractor to rear axle housing mounting bolts. Tie bars or frame must be sufficient strength to support weight of tractor with the bolts removed.
- 9) All tractors that utilize a tube ladder type frames must be covered on the outside with steel or aluminum 0.060 thick.

### **Exhaust Systems**

- 1) Exhaust pipe must have 2 - 3/8" grade 5 bolts in vertical portion of exhaust pipe. Bolts are to be installed 90 degrees to each other, within one inch of each other. Minimum height 12" above hood. No rain caps allowed.

### **Fuel and Fuel Containers**

- 1) No nitrous oxide, oxygen or nitro methane.
- 2) Diesel fuel only.
- 3) Water injection allowed. Water will be subject to random testing.

### **Kill Switches**

- 1) All diesel competing vehicles must have an air shut-off in working at order at all times.
- 2) On a diesel tractor, the kill cable must activate the air shut-off required on a diesel engine. A cable may be used for this purpose, but must have positive type enclosed cable for the air shut-off. The cap must have a spring loaded closing mechanism. System to be deemed acceptable must at least prevent from building boost. It is recommended that a gasket / seal arrangement be used. To more effectively shut off airflow. Door or rain cap air shut offs (no "butterfly" type) will be required on all self-ignition engines with a separate control for the driver. Control for driver not to be the same as for the sled. No electrical operated air shut-offs allowed.
- 3) Track officials and/or tech inspectors have the option of checking kill switches as they feel is adequate at any event. It is recommended that all kill switches be check on all competing vehicles at every event.
- 4) All kill switches must be mounted independent of drawbar and/or wheelie bars / stabilizer bars.
- 5) The kill switch must be located in the rear center (maximum of 6 inches off center in any direction), approx four feet above the hook point.

6) The breakaway kill switches must have attached to them a minimum of a 2-inch diameter ring, with a minimum 1/8-inch cross-sectional thickness. The cable from the sled will be attached to this ring.

7) 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.

8) If vehicle has kill switch or shut-off located in a legal position, and during the pull it is pulled and the nylon strap is broken, and the presiding judge inspects and finds switch capable of operating properly under normal conditions, vehicle will be allowed to re-pull immediately or drop six positions. Decision to drop must be made before vehicle leaves the track. It is the puller's responsibility to see that the official checks the switch before leaving the track.

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

### **Stabilizer Bars**

1) Stabilizer bars are required. The drawbar assembly will not in any way be attached to the stabilizer bar assembly.

2) The stabilizer bar must extend a minimum of 32 inches behind a line drawn from the center of the wheel to the ground. Pad must not be more than 10 inches off the ground at 32-inch point and be measured during hitch check before competition. The stabilizer pad must be a minimum of 5 inches square with a minimum of 20 inches allowed from outside of one pad to the other. No crossbars between stabilizer bars allowed behind point of hook.

### **Safety**

1) Any engine driven fan must be shrouded 360 degrees.

2) No foot throttles allowed. Dead man throttles are mandatory.

3) If an Illiana Pullers Association track official or tech official feels a vehicle is unsafe, they have the right not to allow vehicle to pull. Track official or tech official has the right to bar a competition vehicle from competing if he or she believes that the vehicle has a potential safety problem.

4) An SFI approved safety blanket is required.

5) All pulling vehicles must be equipped with a minimum of 2 lb Halon type of 2½ lb dry- powder type fire extinguisher, full charged with a gauge, in working condition and convenient to the operator.

6) All drivers must wear helmets that meet or exceed Snell 2000 rating or must meet SFI specification 41.2. No modifications or alterations of the helmet are allowed. All chinstraps must be fastened. Helmets with fire retardant lining and a flame retardant neck shirt allowed. If you use a helmet with a

fire retardant lining and flame retardant neck skirt, no head sock is required. Once a helmet has suffered a severe impact, it must be replaced or sent to manufacturer for re-inspection.

7) Inner shield to be either 60k thick, ¼ inch aluminum.

### **Tires**

1) 20.8x38

2) Cut tires allowed.

### **Weights**

1) Maximum weight for tractor and driver is 11,500 lbs.

2) Weights must be safely secured and must not extend rearward beyond rear tires. No weight frame may extend more than 24" beyond the furthest point of the front of the tractor.

All general rules apply where applicable.