

# LAWRENCE COUNTY FAIR

## HOT FARM RULES

### WEIGHT CLASS:

#### 9,500 pounds 3" Turbo

#### 10,000 pounds 3LM Turbo

Individual weight classes will be determined by current sanctioned handicapping methods.

- 1. All 'Hot Farm' tractors must be stock appearing.**
- 2. All hoods, grills, fenders and frame must be stock appearing for make and model being pulled. Tractor must have a stock block or its factory replacement. OEM Stock Head. No Re-Cast Blocks/Heads. Intake spacer no greater than 1". 600 Cubic Inch maximum = 3" Turbo . 640 Cubic Inch Maximum = 3LM Turbo. Diesel is the only acceptable fuel. Maximum size of a Deck plate is 1" inch thickness. Any tractor is subject to a cubic inch check.**
- 3. A wide front-end is required for all competition tractors.**
- 4. No pressurized fuel tanks are permitted in this class.**
- 5. Water for cooling purposes of the turbo will be permitted. No types of accelerants or oxygen extenders or the like will be permitted.**
- 6. Tractors must be equipped with steel hitching device not more than 1.5" thick with a 3.5" diameter opening. Cross sectional thickness must be measured 1" min. to 1.5" max. Pulling point must not be more than 1.5" from back edge of the pulling device.**
- 7. Tractors must hitch to a stationary draw bar with a max. 20" height, and a minimum of 18" from the center of rear axle to the hitch point, a clevis is not permitted.**
- 8. Any loss of weights or excess fluids or any part of the tractor during the pull, will result in a disqualification. Tarp straps are not allowed anywhere on the tractor.**
- 9. OEM stock intake and exhaust manifolds must be used for that series engine (alterations for turbo mounting ONLY are allowed). No Recast Pumps**
  - a. Legality of the injector pump by officials is based on the visual inspection of the outside housing and not the inner workings of the injector pump. No Billet Pumps.
  - b. 'A' PUMP: All 'A' pumps must be derived from the German Bosch design. Allowed an Intercooler
  - c. 'P' PUMP: No Inner Cooler
  - d. No sigma pumps OR MW or Re-Cast pumps are permitted.
  - e. All Fuel Injection Pumps must maintain stock OEM Dimensions
- 10. A single turbo-charger ONLY is permitted with the following:**
  - A INTAKE - for 3" Turbo**
    - Intake housing to be no larger than 3.1" at the face of the wheel.
    - Compressor wheel must protrude into 3" bore.
    - Map width enhancement of .180" Maximum is permitted. Must be in OEM location

## **B INTAKE – for 3LM Turbo**

- Compressor housing will have a maximum 2.9" I.D. of intake and 2.0" O.D. outlet. The exhaust housing will be no larger than 360 with a maximum outlet of 3.06 I.D.
- All Air flow must go through the turbo intake and map ring, no other air flow will be **permitted: IE. Drilled holes around the turbo intake**

## **C EXHAUST –**

- Turbine wheel to be no less than 3.0" in diameter at intersection of turbine wheel face **and tip diameter.**
- Turbine housing to be no larger than 3" at intersection of turbine wheel face and tip **diameter.**
- All turbine wheel blades to protrude into 3" bore. All air must exit through 3" opening.
- Exhaust housing will be measured at intersection of turbine wheel face and tip diameter.

**D. No waste gates permitted.**

**E. No variable geometric turbos permitted.**

**F. No clipping of turbo wheels to allow larger wheel in a smaller housing.**

**11. 20.8" x 38" " tires the *largest* allowed with cut tires permitted.**

**12. All tractors must have wheelie bars that are able to support the weight of the tractor.**

**13. Front weights may not extend more than 13' from center of rear axle to the front of weights. Rear weights may not extend more than 6" past rear tires, and may not interfere with hooking device or ability to hook and unhook the tractor from the sled.**

## **SAFETY EQUIPMENT:**

- Tractors must have steel engine side shields
- Tractors must use an approved blanket on the transmission and clutch area
- All engine fans must be shrouded with factory shroud or 1/16" thick steel shroud
- All tractors must have a safety kill switch or an air shutoff
- Each tractor must have a 2.5 lb. dry chemical fire extinguisher accessible to the driver while operating the tractor
- Must have at a minimum of a factory R.O.P.S. system capable of supporting the tractor at its heaviest weight class.

**NOTE: A true farm stock tractor operating at no more than 10% over manufacturer's RPM specifications is released from the safety equipment requirements.**

**The exhaust MUST discharge vertically and MUST have two (2) Grade 5 cross bolts (3/8") in the exhaust elbow or pipe. Bolts must be installed 90 degrees to each other and within one (1) inch of each other as close to turbo as possible.**

## **DRIVER SAFETY**

- Driver must wear a motor sport designed helmet. (Snell 80 or higher).
- Driver must be a minimum of 18 years of age to pull in this class /or if ages 16 or 17/ must present a signed and notarized statement of permission from a parent or legal guardian.
- All drivers must wear leather shoes and long pants.
- No more than one person is permitted on the tractor at any time.

- Driver must remain seated and have at least one hand on the wheel at all times. Driver may not leave the seat of the tractor while it is running.

**\*\*\* At the Lawrence County Fair event every Driver must declare at Registration and Tech which Turbo the tractor is utilizing. May not switch after that point for that event.**

**\*\*\*\* This weight will be subject to the alterations that are ongoing throughout the season, to ensure competitiveness in this Hot Farm Class combining Northwest PA Truck & Tractor Pullers and USA East Hot Farm.\*\*\*\***