

## Class Guidelines

### 2.6 Pro Street Diesel Trucks Guidelines

1. Maximum weight 8000#

2. OEM Chassis is mandatory. The vehicle must retain the full OEM chassis. Wheel tubs, back half conversions, and tube chassis are prohibited. Must retain factory OEM wheelbase for make and model of body, not to exceed 172 inches.

3. The body must be OEM truck body including the full bed floor. No flatbeds permitted. The body must retain the full sheet metal. After market hoods permitted. The hood must be closed and securely latched when hooked to sled.

4. Complete engine must have stock appearance except where otherwise noted in these rules. Maximum engine size will be 460ci. Engine must be in OEM location for the body used. Engine must have a 3/8 diameter cable surrounding the engine block. Cable is to be positioned between #1 and #2 cylinders and is to pass through manifolds. Cable will have 4-6 inches of slack. Two cable clamps at cable splice are required

5. Cylinder head must be OEM or OEM replica for brand of engine. Outside of cylinder head must measure factory width and length. No billet heads of any material. Head must retain factory OEM valve angle. No deck plates permitted.

6. Hook point to be no closer than 44" of centerline of rear axle. Maximum hitch height of 24" with a minimum of 3.75"x3" opening. Hitch must be stationary in all directions. Hitch must be frame mounted. The use of reese style hitch is allowed with reinforcements. Hitch must be centerline of rear axle or behind. Hitch must not exceed 25 degree angle from pivot point to hook point. No hitch supports or adjusters fastened to rear axle housing shall be above center point of rear axle. Pivot pin of drawbar can be no further forward than the centerline of rear axle.

7. Turbo is limited to a 2.6" inducer bore. Bore must be smooth. No MAP Width Enhancement groove (MWE) allowed. Compressor wheel must protrude into 2.6" bore for 1/8". Bore will be checked with a 2.605" turbo plug. Plug must not be able to enter inducer bore and contact wheel.

8. All vehicles must be equipped with upward pointing exhaust located either directly behind cab or out of truck hood. Two 3/8 inch diameter bolts must be placed through the exhaust pipe in a cross pattern within one inch of each other and within 12 inches of turbo.

9. Front hanging weights are allowed, not to exceed 60 inches forward from the centerline of front axle. Ballast may be added in the bed of truck but must be securely fastened. Maximum weight 8000 pounds. Fuel cell/battery allowed in front weight box.

10. All trucks must have at least six-inch-wide u-joint shield around the rear u-joint constructed of at least 5/16 inch steel or 3/8 aluminum that will safely contain the u-joint and the end of the driveshaft. All shields must be securely mounted to vehicle. Any front shaft u-joints that can be visibly seen from side of truck must be shielded to contain the u-joint and the end of the driveshaft.

11. A fire extinguisher system is permitted. 2.5# fire extinguisher must be securely mounted within reach of driver. A complete OEM firewall is required.

12. All drivers must have valid driver license and full SFI fire suit including helmet. Seatbelt/restraint must be worn.

13. The complete OEM floor pan is mandatory. Vehicle must maintain a complete firewall. Additional gauges and pillar pods are permitted.

14. Hand throttles permitted. Diesel fuel only. No propane or N<sub>2</sub>O or any other oxygen enhancers allowed.

15. Maximum of one P pump up to P7100 allowed. 13MM plunger limit. Ag governors permitted. The use of multiple high-pressure common rail fuel pumps is legal. 16. OEM rear and front ends required. Must have come factory in a one ton or smaller vehicle.

17. Axle shields are required. Shield to be .060" thickness steel or aluminum. A hole may be cut in one shield to allow operation of hub lock.

18. Safety switch (rain cap or guillotine) must shut off air to diesel engines. Switch will be securely mounted to back of vehicle. A 2 inch or bigger solid ring must be attached to end of switch. Ring must be zip tied to switch bracket. Switch must also be able to be activated in cab while driver is secured in vehicle.

19. Hydraulic steering permitted

20. Suspension: The upper mounting point for strut assembly must be in factory location. Adjustable caster/ camber pillow ball mounts are permitted. The lower control arm may be strengthened provided the factory mounting points are maintained. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted. Raising or lowering of vehicle height with suspension modifications is permitted but must be bolt on only. Welds permitted for attachment to frame and axle only. Blocked suspension permitted. No air bags. Rear suspension may be made solid.

21. Tires must be DOT approved with maximum size of 35x12.50. No studded tires or tire chains. No alterations to tires permitted. No bar or terra tires.

22. Dual wheels are prohibited.

23. OEM transmission and transfer case must be used. Must have come factory in a one ton or smaller vehicle.

24. Non-OEM transmissions prohibited. Aftermarket torque convertors, valve bodies, and internal components are permitted.

25. SFI bell housing and/or SFI blow proof bell housing or SFI blanket type shield must be used.

26. Water injection is prohibited.

27. Air to Air intercooler only. No cooling device allowed for intercooler. No ice boxes.

## Superstock 4x4 Guidelines

### Safety:

- All Safety equipment mandatory
- Fire suits and Helmets

### Engine:

- 530 C.I. Max with 1 percent tolerance
- Single four barrel carburetor

### Chassis:

- 133 inch wheelbase max
- 27 percent hitch, roughly 36 inches center of rear end to hook point
- 26 inch hitch height ridged in all directions
- 60 inches front of weight bar from center of axel

### Tires:

- 35 inch DOT tires maximum
- 10 inch rim

## Light Limited Super Stock Guidelines

\* Please advise, there will be random inspections of the turbo chargers for circuit members tractors. At any points event the inspections may be done with a standard measuring slug that meets the definitions stated in the rules to conduct the inspection.

\* All tractors running 30.5"x32" tires will run at 6250#, and tractors with 24.5"x32" can be 6500#.

### Engine:

- Engine crankcase, block, and cylinder head must be of same manufacturer, or factory replacement. It can be used in any cast transmission/rear end housing used by the brand of engine, or through company mergers using said brand of engine .Example: CNH may use, Case, Farmall, International, CaseIH, Ford, New Holland
- Engine must match brand of tractor.

- Rear of engine must be in stock location for make and model of rear end/transmission housing. A maximum tolerance of 1" for adapter plates is allowed.
- No V-8 engines allowed.
- Cylinder heads must be OEM manufacturer casting for said tractor and engine block, or factory replacement block at the time of manufacture. Original casting must be retained. Porting and polishing of the original ports is allowed. Modifications to the cylinder head to accept for billet, casted, recasted molded, or any other kind of insert is not allowed. Cylinder heads limited to 2 valves per cylinder, no overhead cams allowed.
- Use of superchargers is not allowed.

#### C.I. Ratio to Turbochargers

- Maximum of 315 c.i. (+/- 1%) for twin turbo charged diesel engines, inner coolers allowed.
- Maximum of 410 c.i. (+/- 1%) for single turbo charged diesel engines, inner coolers allowed.
- Maximum of 470 c.i. (+/- 1%) for single turbo charged diesel engines, NO inner coolers allowed.
- Turbos shall not exceed a 3.4" smooth, or 3" slotted inlet and a 4" outlet measured at the face of the wheels. Slotted chargers cannot have slot feed face of the wheel and a .200 MAF enhancement is allowed.
- Maximum of 370 cid (+ or - 1 percent) for single turbo charged alcohol engines. No intercoolers allowed.

Turbocharger(s) shall not exceed a 3" SMOOTH BORE inlet as outlined in NTPA rulebook LLSS and a 4" outlet measured at the face of wheel.

#### Fuel/Water:

- No nitrous oxide, fuel pump lubricants such as Standadyne, is permitted.
- High pressure water injection systems are allowed, with water-soluble pump lubrication additives. ● Maximum size of fuel pump allowed is a "P" series pump Safety/NO EXCEPTIONS!
- Must have kill switch that can be operated from the dash, and from the rear of the tractor.
- Must have 3-way dump valve, and check valve on the fuel system.
- Must have a scatter blanket and steel flywheel (SFI approved is preferred).
- Must have roll cage, tie bars, and wheelie bars with bump stops.
- Will also meet all other general safety equipment as outlined in NTPA rulebook.

#### Protesting

- If a member wishes to protest another competing tractor, the protester will put up a \$500 protest fee, paid to a board member. If the protested tractor is legal, the \$500 goes to the tractors owner. If the tractor is found illegal the money will go to the club treasury, and the tractor will surrender all points

accumulated from start of season to inspection date. Tractors found illegal will then not be allowed to pull until they meet all the above said rules.

- Protest inspection will include removal of the head, with a board member and another class member present, to measure cubic inch displacement.

- This is all to be done within club members, DO NOT INVOLVE PROMOTERS !!! Class Representative:

Luke Rindt 715-613-4179

Chad Zachow 715-613-5130

#### 8000# Ltd. Prostock/Hotfarm Tractor Guidelines

\* Please advise, there will be random inspections of the turbo chargers for circuit members tractors. At any points event the inspections may be done with a standard measuring slug that meets the definitions stated in the rules to conduct the inspection.

#### Engine:

- Stock appearing heads. No aftermarket billet heads allowed.
- Inner coolers allowed up to 505 c.i. with +/- 1% tolerance.
- 510 c.i. or below allowed a max turbo size of 3x4, turbo may be slotted.

o Legal turbo definition is the following: 3" inlet, 4" exhaust outlet, no waste gates, intake housing to be no larger than 3" at the face of the wheel. No additional openings in the compressor housing outside the 3" opening. MWE groove maximum width of .200. MWE groove must be inside the neck area where the intake cover is measured at 3". The tips of the intake wheel shall protrude 1/8" into the cover of the intake and this is where the measurement will be done with a caliper. PPL intake cover for 505 or less c.i.

- Any engine above 510 c.i. must run a 3"x3" or smaller turbocharger. (Current NTPA rules apply to turbo)

#### Fuel/Water:

- No nitrous oxide, only permitted fuel is diesel, with fuel pump lubricants such as Standadyne, is permitted.
- High pressure water injection systems are allowed, with water-soluble pump lubrication additives.
- Maximum size of fuel pump allowed is a "P" series pump

Safety/NO EXCEPTIONS!

- Must have kill switch that can be operated from the dash, and from the rear of the tractor.
- Must have 3-way dump valve, and check valve on the fuel system.
- Must have a scatter blanket and steel flywheel (SFI approved is preferred).
- Must have roll cage, tie bars, and wheelie bars with bump stops.
- Will also meet all other general safety equipment as outlined in NTPA rulebook.

#### Tires/Chassis

- Tire size is limited to 24.5"x32" or 20.8"x42", any style cut is allowed.
- Factory cast rear end and transmission housing only, NO COMPONENTS.
- Maximum hitch pulling height is 20".

#### Rules for Hot Farm Tractors Competing in LTD Prostock Class

##### Engine/Turbo to Weight ratios/Tires

- Maximum of 510 c.i., stock appearing heads, no aftermarket billet heads allowed.
- NO INNER COOLERS
- Tractors running at 9500 LBS, are allowed to run a 3"x3" slotted turbo, or smaller, that will follow NTPA rules.
- New Trial for 2021 Season tractors running at 8750LBS, are allowed to run a 3"x4" slotted turbo or smaller.
- Same fuel and water requirements as stated above.
- Maximum tire size is 20.8"x42".
- Tractors will also meet all safety equipment rules stated above.

#### Super Farm Tractors Competing in LTD Prostock Class

- Tractors must weigh 8000LBS.
- All other, engine/chassis/safety rules will follow NTPA super farm rules.

Class Representative: Kevin Andres 715-415-0692

## Street Altered Trucks Guidelines

- Drivers must be at least 16 years old with a valid drivers license
- o Note: Every driver under the age of 18 will need to complete a waiver form which includes the signature of a legal guardian (NO EXCEPTIONS)
- o All drivers must wear a helmet
- No Alcohol Fuels
- No Passengers
- Vehicle must include the following safety equipment
- o Rear kill switch
- o Knuckle guards on all U joints
- o 1/8" rigid steel driveshaft loops, 2 per shaft
- o Steel bell housing, SFI approved aluminum bell housing, or scatter blanket
- Body must be complete and capable of a passenger, including all of the following
- o Driver, and Passenger seat
- o All body panels , excpt may run with out tailgate
- o Glass in all windows
- o Firewall in stock location
- o Must have stock box floor in stock location
- o Fuel cell not to be mounted in cab unless OEM
- Engine must be 515C.I. or less 522c.i. pumped is fine 522.1 is over
- o Any block can be used
- o Cast iron heads only
- o No sheet metal intakes, no tunnel rams, single plane intake is ok
- o Single carburetor, naturally aspirated only
- o Dominators are allowed
- o No dry sump oil systems
- o Engine location to be no less than 12" from center of front axle to rear of engine block
- o All trucks are subject to being pumped
- Headers must be chassis exit or fender exit

- o No upswept headers
- o Exhaust must exit behind the cab
- o Must have a muffler-No open headers
- 35" Tires or smaller
- o Dot approved
- o Sipe cuts allowed, but no material is to be removed from factory tread pattern
- Stock appearing suspension with at least 1" of travel, No traction bars . 145" wheel base max
- o Any factory link suspension allowed, must use spring type that matches suspension used
- o No heim joints or spherical bushings
- o Links cannot be thread adjustable
- o No binding between shackles, and springs on rear suspensions as to limit travel in any direction
- Must have OEM steering box
- o Electric over hydraulic is ok
- o Hydraulic assist is allowed
- Hitch height must be 26" or less measured from the ground level to the top of the hitch
- o No part of the hitch or mount can be farther forward then the center of the rear axel
- o Hitch adjustment has to be located behind rear spring hanger
- o Hitch set back is to be no less than 30% of the wheel base measured from center of rear axle.
- Weight bars are allowed
- o Weight cannot exceed 60" from centerline of the front axel, and 193" from center of rear axle
- Drive train and suspension must not exceed 1 ton components

☒ Any protest are to be brought to class representatives, not event promotors.

- Class Representative
- o Steve Green 715-305-7177
- o Jeremy Karau 715-921-6681

## 11000# Altered Farm Tractor Guidelines

### 12 MPH Pace

#### Engine:

- No C.I. limitations/ No RPM limit
- Any fuel pump and turbo charger allowed
- Water injection is allowed
- Oem intercoolers in factory location plumbed as installed from factory are allowed
- No ice boxes, or aux cooling systems may be used with intercooler
- No pressurized tanks, No propane, and No nitrous oxide

#### Tires:

- 20.8x38 or 18.4x42 inch tires or smaller allowed
- Ag tires only
- Top cut only allowed, No bar or v-cuts

#### Safety: (NO EXCEPTIONS!)

- Wheelie bars, and bumpers that stick out past rear tires, if the wheelie bars don't
- Roll bar or roll cage
- 3-way dump valve for fuel system
- Guillotine, (Air Shutoff) that must be able to be pulled from back
- Steel flywheel, preferably SFI approved
- Electric fans only no factory belt driven fan
- Lead scatter blanket over flywheel housing
- Dead mans throttle
- Cross bolts in exhaust after turbo, 3/8" minimum
- All tractors must have a wide front end and fenders
- All competing tractors must have side shields!!
- Tie bars, and pulling hitch (no clevis on stock drawbar)

#### Hitch:

- 20" hitch height

- 18" minimum from center of rear axle to back of hitch hole

Weight:

- 13' max distance from center of rear axle to front of weight excludes tow hook

Class Representative:

Darin Leffel

715-223-5529

Guidelines

6000 Hot Farm / V8 Mod

6000 lbs

The following guidelines apply to all engine types.

No nitrous allowed.

Single turbocharger only.

No Deck Plate engines allowed.

OEM cast cylinder heads only.

Water Injection allowed with Oil Lube ONLY, No additives allowed in Injection water.

Naturally aspirated Inline engines allowed up to 650 cubic inches.

18.4x38 tires- largest allowed with Ag tires, any style cut allowed. NO Pro Puller tires.

Maximum length of front end is 13 feet. ( Measured from the center of rear axle to furthest point forward, excluding tow hook )

Maximum wheel base allowed is 114 inches.

Minimum hitch length is 18", measured from center of rear axle to hook point.

Maximum hitch height is 20".

Sheet metal must match brand family.

OEM tractor rear end, transmission and axle housings ONLY.

No component tractors, No dropbox transmissions allowed.

All transmission housings and rear end housings must be bolted together as was intended by manufacturers.

No front axle suspension allowed, including air bags. Front end pivot is allowed.

Rear weights must not extend past rear tires.

Rear bump stops must extend past rear tires.

Must have high back seat with a minimum 4 point safety harness.

#### Safety requirements

Kill switch required. Air shutoff guillotine must be mounted to all turbochargers. Electric shut off for all spark fired engines.

Fuel shutoff, 3 way dump valve must be mounted after fuel filter housing before injection pump.

On board fuel shutoff must be accessible from strapped in position.

Dead man's throttle return required.

Electric fans required. No driven fans.

Wheelie bars required, must have 4"x4" pads, Bottom of Pad can be no more than 10" above ground level. Wheelie bars must support weight of tractor.

Turbo charged engines required to have TWO 3/8" bolts fitted in a cross pattern on the exhaust piping after turbo, welded on both ends.

Fire extinguisher required.

No cast flywheels allowed

Clutch and automatic transmission blankets required.

Wide front end required.

Roll Cage with 2 bar minimum is required. Material thickness minimum must be either .093" for chromoly, .120" for mild steel.

On turbocharged engines, a 3/8" cable between #1 & #2 cylinders wrapped all the way around engine is required.

Back up light required.

Rear fenders required.

Driver must wear complete fire suit. ( pants, jacket, and helmet )

Engine skins  $\frac{1}{4}$  aluminum, or  $\frac{1}{8}$  steel from bottom of head to frame.

Front ski bars under front axle, maximum height of 4in from ground.

#### Diesel Specific Guidelines

414 c.i. +1 % Limit on Diesel powered tractors.

Single Turbo only. 2.6" smooth bore x 3.6" and smaller.

Intercoolers allowed on 360ci and smaller.

Factory intake and exhaust manifolds only, NO headers allowed

Largest injection pump size allowed is a P7100, No P8600 pumps allowed

No computerized injection systems allowed

#### V8 Specific Guidelines

515 Cubic Inch V8 limit.

Any cast iron block can be used

Conventional stock valve angle heads ONLY any brand.

No forced induction allowed.

Any dual, or single plane intake. (mass produced cast aluminum)

No tunnel ram, or sheet metal intakes allowed.

Pump, or race gasoline only.

Single carb 2.1" butterfly max allowed.

May run an automotive style transmission in addition to oem transmission and rear end.

Tractor body style.

Rail style tractors allowed w/ 13 feet maximum front end and tractor tins.

#### Alcohol Specific Guidelines

360 Cubic inch limit.

Single Turbo. 2.6" smooth bore inlet x 3" turbine max.

Must have full safety fire suit, plus fire resistant gloves, face mask and shoes. No exceptions!

Must run OEM intake and exhaust manifolds.

Class Representatives:

Tractors: Ben Martyn (715) 897-9010

V8: Josh Balk 715-773-1460 or 715-512-0300

King of the Street Guidelines

This class is designed for street modified Diesel Pickups

Ballast: Hanging front weights are permitted. No weight boxes allowed. No weights in cab allowed. Weight not to exceed 60 inches forward from the centerline of front axle. Maximum weight of 8200 pounds

Batteries: Batteries must be located rearward of the front core support.

Body: The body must be the OEM truck body, including the full bed floor. Complete interior and all working components. Driver seat and passenger minimum. Fiberglass hoods and roll pans are permitted. Must have a factory installed pickup bed or commercial available flat bed.

Chassis: The OEM chassis is mandatory. 4-wheel working brakes. OEM suspension, air bags/solid removable blocking permitted.

Cooling System: Radiators must be in the stock location and be of at least stock size. Electric cooling fans are permitted

Driveline: OEM transmission, transfer case. Must use OEM axle housings front and rear from 1 ton or less. OEM style suspension only. Lift kits allowed. Rear traction bars allowed, must have a safety loop around bar. Rear axle can not be welded solid to the frame. Must have one catch loop located center of the rear drive shaft.

Engine: OEM blocks must circulate coolant freely. Engine must be one from a 1 ton or less.

Exhaust: Trucks must direct exhaust upward. Two 3/8 diameter bolts must be installed through exhaust pipe in a cross pattern within 1 inch of each other, as close to the turbo as possible.

Fuel: Multiple high- pressure pumps allowed. The fuel must be pump #1/#2 diesel, Soy/Bio fuel

allowed. No propane, NOS, or water injection.

Harmonic Balancer: All engines turning more than 4500 RPM must be equipped with a harmonic balancer or dampener meeting SFI Spec 18.1.

Hitch: The hitch must be a Reese receiver-style hitch. 3.75 hitch hole must be exposed at rear of vehicle. Minimum of 44 inches from center of rear axle back. No hitch supports to bracing may extend forward of the rear axle. Maximum 24-inch hitch height. Must use 5/8" grade 8 bolts in place of receiver pin. Final decision of legality of all hitches resides with the head tech official.

Intercoolers: Only air to air intercoolers are allowed unless factory equipped. If factory equipped, you may replace with aftermarket factory replacement cooler, must remain in factory location.

Kill Switches: Truck must have an air shut off on the atmosphere turbo, either a guillotine or rain cap must be used to stop air from entering the turbo.

Guillotine must have a cable that runs either to the rear of the truck or in the cab within reach of the driver.

You may run an electric kill switch as long as the cable for the air shut off is within reach of the driver

Must be mounted within 12 inches of the pulling hitch. . Switches will be tested.

Safety Equipment: All drivers must wear a helmet. No open face helmets allowed. Fire jacket, pants, gloves, shoes, and face sock are recommended.

Must carry a fire extinguisher in driver's compartment.

All exposed u-joints must be shielded,

Transmission blanket is required

Must have one catch loop in center of rear drive

Tires: The tires must be DOT street tires. 35 inch maximum height. Dually trucks may not exceed factory tire size for the year of the truck. "No bolt on duals for factory SRW trucks.

Turbo charger: You may run any turbo charger(s). Atmosphere charger must have an air shut off. A Guillotine or a Rain cap must be provide complete air restriction from turbo.

Tech Inspection: During tech inspection driver must comply with all tech requests. Tech official has final say

Class rep: Randy Guden Phone: 715 316 1313