

# **Xcaliber Pulling**

## 2016 Board Members

### **President—Board Member:**

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### **Officers:**

#### **Secretary/Treasurer:**

Stephanie Merklin  
7993 Tower Rd  
Hillsboro, MO 63050  
(636)375-6945

### **Vice Presidents:**

#### **6400lb Limited Pro:**

Ben Klott  
(573)470-4120

#### **8500lb Limited Pro:**

Jim Brinker  
(636)667-5615

#### **6000 Extreme:**

Chad Carroll  
(660)415-7371

#### **4.1 Limited Pro:**

Chad Bruns  
(573)473-6690

#### **Modified 4WD**

Terry Bay  
(417)247-0886

#### **Prostock 4X4:**

Mike Miller  
(573)690-3703

#### **Modified 2WD:**

Luke Hubert  
(573)473-6175

#### **Diesel Prostock Truck:**

Kevin Cole  
(314)602-7836

## 2016 Xcaliber Pulling Membership

Members of Xcaliber Pulling will receive a membership card, rule book, event information and newsletters. The membership card will have the Xcaliber Pulling logo along with your name and address. Memberships are valid from January 1, 2016 to December 31, 2016.

### Membership fees:

Postmarked by December 15, 2015: \$125.00  
Postmarked after December 15, 2015: \$150.00

### Vehicle Registration fee:

Per Vehicle: \$50.00

### Insurance fee (mandatory):

Postmarked by December 15, 2015 \$150.00  
Postmarked by February, 1, 2016 \$170.00  
Postmarked after February 2, 2016 \$190.00

### One Day Membership:

One Day Membership includes: \$60.00  
Insurance and hook fee

### Pulling Classes:

Xcaliber Pulling offers a total of 10 different classes. They are:

1. 8500lb Diesel Super Stock Tractor
2. 6400lb Limited Prostock Tractor:
  - 410 cubic inch—1 turbo
  - 315 cubic inch—2 turbos (diesel only)
- 6100lb Limited Prostock Tractor:
  - 360 cubic inch—2 turbos
3. 6200lb Prostock 4X4 Truck
4. 8500lb Limited Prostock Tractor: 466 cubic inch limit
5. 6200lb Modified 2WD Truck
6. 8000lb Diesel Prostock Truck
7. 6000lb Extreme Super Stock Tractor
  - 6000lb—Alcohol
  - 6200lb—Diesel
8. 6200lb Modified 4WD Truck
9. 9500lb 4.1 Limited Prostock Tractor: 640 cubic inch limit

### Purse Payout

**6400lb Limited Prostock:** \$1800.00 per class

Payout: 8 places \$415-\$360-\$270-\$215-\$180-\$140-\$125-\$95

**6200lb Prostock 4X4:** \$1800.00 per class

Payout: 8 places \$415-\$360-\$270-\$215-\$180-\$140-\$125-\$95

**8500lb Limited Prostock**\$1800.00 per class

Payout: 8 places \$415-\$360-\$270-\$215-\$180-\$140-\$125-\$95

**Diesel Prostock Truck:** \$2000.00 per class

Payout: 8 places \$460-\$400-\$300-\$240-\$200-\$160-\$140-\$100

**Modified 2WD Truck:** \$1600.00 per class

Payout: 6 places \$460-\$375-\$230-\$205-\$180-\$150

**6000 Extreme Super Stock:** \$2500 per class

Payout: 8 places \$600-\$500-\$400-\$325-\$225-\$175-\$150-\$125

**Modified 4WD:** \$3000 per class

Payout: 8 places \$720-\$600-\$480-\$390-\$270-\$210-\$180-\$150

**8500lb Diesel Super Stock:** \$3000.00 per class

Payout: 8 places \$700-\$600-\$450-\$350-\$300-\$250-\$200-\$150

**9500lb 4.1 Limited Prostock:** \$3000.00 per class

Payout: 10 places \$600-\$500-\$400-\$350-\$300-\$250-\$200-\$200-\$100-\$100

### **Hook Fee:**

1. All classes with the exception of Modified 4WD, 6000 Extreme Super Stock, and 9500lb 4.1 Limited Prostock will be charged a \$20.00 hook fee
2. Modified 4WD, 6000lb Extreme Super Stock, 8500lb Diesel Super Stock and 9500lb 4.1 Limited Prostock will pay 1% of purse for the hook fee.
3. 100% of hook fee will be put into the individual class's point fund. 100% of the one day membership will also be put into the individual class's point fund.
4. Members must be entered **1 hour** prior to scheduled start time. Late entries will be charged a \$20.00 late fee, unless a pre-entry has been arranged. If you know you are running late, you should notify the secretary or the class vice president. At that time, the secretary has the authority to draw for your position and enter you for the competition.
5. Tractor may compete in a class different than its own if it complies with class rules.
6. All members will be allowed to pre-commit to any or all of the events that his/her class offers. This will allow member to skip registration process at each pull.

### **Points**

1. Points will be awarded to vehicles that have paid vehicle registration fee.
2. Vehicle will receive show-up points at each sanctioned even—5 points per class—provided vehicle registration and hook fee is paid. If you wish to receive a hook fee back—you will not receive any points for that particular class.
3. Points will be awarded in the following way: 1st place will receive 25 points, and will continue decreasing by 1 point each lower place.
4. Points will be tallied and winners will be awarded at the conclusion of the season.
5. Points will be paid out at the same percentages and the same places as each class purse payout. If a class does not have 8 members, but purse payout is 8, the remaining points fund will go into general fund.
6. A tie in points will be broken by the most first place pulls. If there is a tie on firsts, it will go to the most second, etc.
7. If a vehicle disqualifies on the track it will receive last place points and prize money (if available) for that class.

### **General Rules**

1. All vehicles must weigh at each event for that event only.
2. All decision rendered by the presiding board will be final.
3. Any rule violations will result in contestant being disqualified.
4. Pull begins when hook is placed in the drawbar, and ends when hook is removed and all safety equipment is disconnected.
5. Contestant pulling the furthest distance in the class will be declared the winner. No excessive digging allowed. Pull is considered over when forward motion stops. Distance will be measured from center of sled.
6. Vehicle may begin pull under the green flag only, and must stop when given the red flag at any time during the pull. If the vehicle begins under a red flag, it is disqualified.
7. Contestants pulling position is determined by drawing when vehicle is registered at each event.

8. If sled breaks during the pull, the class will start over.
9. No tarp straps may be used to secure weights.
10. Officials can weigh vehicles & measure hitches after class has pulled.
11. Absolutely no arguing about prize money.
12. Extra prize money will be pro-rated to the class at the same percentage rate as regular payout, unless fair advised otherwise.
13. Contestants gets 2 pit passes per vehicle.
14. Nitro, nitro methane, any combination of nitro, or nitrous oxide is considered an illegal fuel. Any violation will result in person being barred for 1 year and 10 days.
15. Refer to USPA rule book for the following: Harmonic Balancer/hub shields, fuel system, illegal fuels, fuel pressure gauge, engine deflection shield, drive shaft loops, drive line brakes, u-joint safety shields, manual transmission, kill switch, fire extinguisher, fire wall, flywheel certification, and cooling system catch can.
16. Unsportsmanlike conduct or behavior will result in vehicle losing hook, points, and prize money for that event.
17. Profanity or threats by any puller or member of his pit crew, toward any officers or sponsor of pull, shall be cause for suspension of said puller and vehicle for the period of one year and ten days from the date of occurrence.
18. All drivers in all divisions must wear full fire protection including full face helmets with shield rated 2000 or newer, head sock, fire gloves, fire shoes, neck brace, and SFI certified fire suits. It is recommended that the face shield be in the down position during competition, head socks/neck skirts must be inside of driving suit. Nothing exposed while competitor is sitting in seat ready to compete.
19. Seat belt must be worn at all times while engine is running on track. Driver will be disqualified if he/she hooks to sled without fastening seat belt.
20. Vehicle must pull within three minutes after sled is ready. Track official may drop vehicle with a problem to a later position.
21. All vehicles must be in neutral or park while being hooked or unhooked from sled.
22. No weights or safety equipment may be lost on track while hooked to sled.
23. Puller may locate sled wherever he desires if he notifies the sled operator in sufficient time to have the sled spotted in said location when the sled is returned to the starting line from previous pull. If the proceeding puller did not move the sled past 100 foot mark, the next puller may have the sled relocated prior to attempt.
24. All pull distances will be measured.
25. Vehicle cannot go outside of track boundaries.
26. Sled (not including dirt shields) cannot go outside of track boundaries.
27. Puller is allowed a second attempt if the first does not exceed 100 feet, but puller cannot be unhooked from sled or move the location unless mechanical malfunction occurs, then puller can unhook and come back before class ends. 100 foot distance must be official measurement. If driver attempts to stop before the 100 foot distance, track official may allow second pull after confirming official distance before making decision. Only one attempt allowed in a pull off. If the vehicle goes out of bounds in a pull off, it will place last in pull off.
28. Track judges may suggest to the sled operator to start the class over, after at least 2 vehicles have pulled.
29. Driver will be disqualified if he does not remain seated on track.
30. Pulling vehicle must be operated in a safe manner at all times. Track officials, board members, or presiding officers have the right to stop and disqualify any vehicle not being operated in a safe manner.
31. Vehicle must enter and leave track under its own power unless there is obvious breakage. Each vehicle is allowed 1 pull off each year for spark plug check, but must ask prior to start of class.
32. Weight ballast cannot be moved after entering track.

33. Lead weights must be marked with #lbs and removed upon demand.
34. After first vehicle has made a legal pull, all remaining vehicles must pull that weight.
35. Every vehicle will have 2 attempts to pass the 100 foot mark,
36. All ties will be pulled off if they involve prize money unless those involved agree to split prize money and points, or if the sled operator refuses to pull off due to time or weather, then prize money and points will be divided equally. Ties for places past prize money will split points.
37. No puller may hook to sled knowing the vehicle is broken.
38. Any individual complaints should be directed toward an Xcaliber Pulling Director.
39. All technical checks (Hitch height, weights, P&G, fuel testing and injection pump testing) should be completed 15 minutes prior to pull by an Xcaliber Pulling officer only. Checks may be at any time, at the discretion of the board of Xcaliber Pulling
40. All vehicles must pass safety and technical inspections at the beginning of each pulling season. Inspection will cover every safety and technical rules currently in effect. Inspection forms will be kept on file with secretary. Vehicle will be allowed 1 pull to come into complete compliance on minor technicalities at the discretion of the officers. Vehicle will not be allowed to pull if there is insufficient time to do complete inspection. Once vehicle has passed inspection the vehicle will receive a sticker that must be installed on vehicle.
41. Flywheel certification form is to be filled out every year (if applicable).
42. Any competitor or any of his crew incapacitated due to an intoxicating agent and/or drugs, his or her pulling vehicle will not compete for the duration of the pull. Obvious or excessive consumption of alcoholic beverages before or during the pull will not be tolerated.
43. The contestant who draws the lowest number will be the test puller, and may take his pull if the weight machine is ok or he may immediately take his second pull or he may pull in the 6th position. If the weight machine needs further adjustment, the contestant who draws the lowest number has the option to take his pull or drop to the 6th position. All previous pullers must follow the puller with the lowest number drawn in order, following the option taken by the first puller after each adjustment of the weight machine.
44. First puller has the option of coming back according to rule 43 if he/she went out of bounds on his/her first attempt.
45. Once entered into a class, puller must participate in every technical inspection at that event. Should the puller refuse the technical inspection, the vehicle is considered illegal and will be punished/banned accordingly.

**46. All vehicles must run VP fuels.**

**Track Officials**

1. They must be a member of Xcaliber Pulling, and will receive free membership and insurance with Xcaliber Pulling.
2. They must present themselves in a professional manner
3. There must be one track official on the track during each class at end of track and one track official at 100' mark.
4. Track officials must keep fully charged fire extinguishers nearby.
5. Track official located at the end of the track is in charge of operations by making sure sled is ready, all people and equipment are clear, and tire ruts are filled in before giving green flag.
6. Track official located at the 100 foot mark is responsible for keeping time for the three minute rule.
7. Track official located at end of track is to ask first puller if he/she is taking their first pull and notify announcer's stand of the decision.
8. Track official is to check kill switch secure tie to see if engine kill is accidental.
9. Track officials are to receive free pit pass to pulls. If he/she is charged for pit entry, reimbursement will be given from Xcaliber Pulling.
10. Xcaliber Pulling officers will make final decision if track official cannot agree on track related decision.

11. Track officials will be paid per event.

## **Protest Procedures**

1. In all protests, the protestor must notify an officer of Xcaliber Pulling. Not the person being protested, and not a class representative or tech official. Protestor must have a vehicle in the same class as the protested vehicle. Protest must be made within 10 minutes of class completion.
2. In a weight dispute, all vehicles in class must weigh. If a vehicle is found from 1-3% overweight, it is disqualified from the class. Greater than 3% will result in disqualification for 2 years and 10 days.

### **A. Tractor Protest Procedures**

1. Tractor must meet all rules, an individual or group may protest a tractor provided they furnish a \$250.00 fee and a \$250.00 teardown fee to remove head. Cubic inches will be checked by removing the head or pan. Other areas will also be checked. An officer of Xcaliber Pulling will be told that this tractor is being protested and they will inform the individual. The officer will not disclose who the protestor is. The tractor will be taken to a secure location and either checked that evening or at a time convenient to all involved. The owner and at least four officers will be present. If the tractor is illegal or owner refuses to tear down, the protestor will be given back the money and the tractor, driver, and owner will be banished from all Xcaliber Pulling events for 2 years and 10 days from the date of tear down.
2. An individual/group may protest a tractor provided a \$75.00 fee is provided to cover the cost of a fuel, alcohol, and/or water check for both tractors involved (the protested & protestor). An officer of Xcaliber Pulling will be notified & given the money. The officer will inform the individual being protested. The officer will not disclose who the protestor is. The tractor will be taken to a secure location & either checked that evening or at a time convenient to all involved. The owner & at least 4 officers will be present. If the tractor is legal, the person protested will receive the money. If found illegal, or owner refuses to the check, the protestor will be given back the money & the tractor, driver & owner will be banished from all Xcaliber Pulling events for 2 years and 10 days.
3. 8300 Series injection pump will not be allowed in any Xcaliber class. Maximum size injection pump is a P-Pump with maximum size plungers of 13mm. An individual or group may protest a tractor provided a \$1000.00 fee is provided to cover the cost. An officer of Xcaliber Pulling must be notified & given the money. The officer will inform the individual. The officer will not disclose who the protestor is. The tractor will be taken to a secure location & either checked that evening or at a time convenient to all involved. The owner & at least 4 members will be present. If the tractor is legal, the person protested will receive the money. If found illegal or owner refuses to tear down, the protestor will be given back the money & the tractor, driver, owner will be banished from all Xcaliber Pulling events for 2 years & 10 days from the date of tear down.

### **B. Truck Protest Procedures**

1. An individual or group may protest a truck regarding hitches providing a \$10.00 fee is provided from protestor. An officer of Xcaliber Pulling must be notified & given the money. The officer will inform the individual being protested. If protestee leaves without being checked the vehicle is disqualified. Officer will check hitches on protested vehicle and two other vehicles that competed in class. If proven illegal the vehicle will be disqualified.
2. An individual or group may protest motor of vehicle. An officer of Xcaliber Pulling must be notified & given the \$500.00 fee from protestor. The officer will inform the individual being protested. If protestee leaves without being checked or refuses to tear down vehicle will lose all points accumulated, & owner & vehicle will be suspended for one year & 10 days, regardless of any ownership changes. The \$500.00 will be returned to protestor. If protestee allows tear down, an Xcaliber Pulling officer will tear down motor, removing cylinder head for test. If found illegal, the \$500.00 will be returned to protestor, & the protestee & vehicle will be suspended for 1 year & 10 days regardless of any ownership changes. Vehicle will also lose all accumulated points for that year. If found legal, \$500.00 will be given to protestee for reassembly costs.
3. An individual or group may protest an engine of a competing member by giving an Xcaliber Pulling

officer a \$100.00 fee for a P&G check on engine. A qualified Xcaliber Pulling officer will perform the test. If found oversize, members will decide whether to tear down and put up protest money. Owner will have option of D/Q before pulling or tear down after puller's last hook of the event. The protest procedure for tear down will be followed at that time.

## **General Tractor Rules**

### **Tractor Safety Equipment**

1. All exhaust must be discharged upward. No curved stack or raincaps allowed. Two 3/8 inch diameter bolts placed 90 degrees apart must be bolted through the exhaust as close to the turbo as possible.
2. All tractors must have a fire extinguisher mounted to tractor in an easily accessible location.
3. All tractors must have skid bars that will individually support the tractor weighted to its heaviest class. Skid bars must not be higher than 10 inches off the ground and at least 32 inches from center of rear axle.
4. Tractors must be equipped with a working air shut off (diesel engines) or ignition kill (gas). A 2 inch ring must be attached to the end, and be positioned 48 inches above point of hook, and be no more than six inches off center and must be able to be pulled from the driver's seat.
5. All tractors must have a spring loaded return to idle throttle.
6. If the tractor has a PTO, it must be covered.
7. Limited Prostock, Super Stock, and Profarm tractors must be equipped with full side shields that cover engine below crankshaft centerline. They must be a minimum of .060 inch thick steel or aluminum. They must be easily removed.
8. All tractors are required to have a white reverse back up light.
9. All inline pump tractors must have a fuel shut off that has a three way diverter valve and must run back to the fuel tank. It must be able to be pulled from the dash by the driver.
10. Roll cages must be SFI approved for all classes.
11. All tractors must have a quick release steering wheel, swing away column or factory tilt column or steering wheel.
12. Must have 3/8 inch cable between 1-2 cylinders with 2 clamps.
13. All inline engines are required to have an additional inner side shield consisting of .125 thick steel or titanium or .250 aluminum inside the current .060 side shields with a minimum of .500 air gap. This shield is independent of the current side shield and must be attached to the vehicle chassis (frame) with a minimum of 5/16 fasteners at both ends and center on the bottom and to the engine block at both ends (bolted solid or with a link of 5/16 chain) at deck height on the top. This shield must extend from the bottom of the head to the centerline of the crankshaft and extend the full length of the block on each side of the engine.
14. Tractor skid plate—front axle skid plate specs for all tractor classes.
  - A. Skid plate must be mounted inline with each frame rail and extend from the center of the front axle forward (on both sides) equal in strength to from rail material. Skid plate surface to be a minimum of 4" wide and 12" long with minimum 6" curve when measured from the front most part of rolled edge.

NOTE: Skid plate must be able to support weight of front end when checked with a jack. Maximum ground clearance is bottom of front wheel rim not to exceed 4" with front tires in normal operating position

  - B. Front axle support to be made of 2.00"X.095" chrome moly tubing or 2.00"X.120" mild steel tubing or same material as tractor from rails. Front axle support should connect to each from rail inline & extend toward front of tractor. Front skid/front axle support should have radius to prevent digging into track. Front axle support from should be strong enough to support front end weight of tractor. Support should have a maximum of 4" ground clearance.

### **Chassis**

1. Engine must remain in original locations and held rigid to OEM chassis.
2. Stock transmission housing and stock final drive housing must be used.
3. Tractors must have hood and grill in place as intended by the manufacturer's lines. All rules apply to original model number of that tractor.
4. Sheet metal may be upgraded but cannot cross original manufacturer's lines. All rules apply to original model number of that tractor.
5. Maximum of 114 inch wheelbase, unless originally produced with longer wheelbase; then must remain stock length. Maximum length 13' from center of rear wheel to forward most portion excluding tow ring.
6. All tractors shall have wide front axles, front wheels shall track within rear wheels.
7. Tube frames will be allowed but must be covered by .060 inch thick metal or aluminum in engine area.

### **Drawbars**

1. Drawbars shall be constructed so that in the event of drawbar breakage, the drawbar supports don't pull from a top link or brace above the center line of the rear axle. A drawbar which has provisions to be made shorter than legal length isn't acceptable. Any drawbar with a hold up device above the centerline of the rear wheels must be a single pin breakaway type.
2. The hold up/down device is to be within 6" maximum forward of hook point. Drawbars are to be held rigid in all directions and must have a device to support the drawbar from side to side movement a maximum of 6" forward of hook point.
3. Drawbars must be rigid, with no movement allowed. Drawbars must have the pivot pin on the same plane as the hitch point.
4. Drawbar must have a 3"X3 3/4" oval shaped hole to accept hook.
5. On tractors an area 5' wide by 12' high directly above the drawbar must be free of any obstructions.

### **Clutches**

1. Clutch and flywheel components must be manufactured from steel components of SFI approved. **No cast iron components allowed.** Clutch must be mechanically active.
2. Clutch and flywheel must be covered with a six bolt bell housing blanket that is at least 10" wide and overlaps 6".

### **General Engine Rules**

1. Tractor must be equipped with the stock engine block for that tractor or an original equipment manufacturer's OEM replacement block.
2. Cylinder head must be a bolt on OEM agricultural-type for that brand engine.
3. If 5/8" deck plate is used, the deck plate is not part of the head and the piston must pass through the deck plate.
4. No recasted, billet, or aftermarket head allowed in any Xcaliber Pulling classes with the exception of Extreme Super Stock. *Note: Must be able to bolt on stock intake and exhaust manifolds.*
5. No overhead cams allowed. Only one intake and one exhaust valve per cylinder.
6. Allowed only one air-compressing device limited to one pressure stage. No superchargers allowed.
7. Tractor must operate on fuel designated for that cylinder head.
8. Engine blocks may not be modified externally except for repair or mounting of injection pump.
9. No pressurized containers may be on tractor (i.e. CO<sup>2</sup>, Nitrous oxide, propane, etc.)
10. No Inner coolers
11. 1% tolerance on cubic inch limit for clearance purposes intended.

## **Limited Prostock**

1. All competing vehicles must run VP fuel and water purchased from Litter Racing.
2. Cubic inch limits for Limited Pro Stocks are as follows:
  - 6400lb. Class—410 Cubic Inches—1 turbo or  
315 Cubic Inches—2 turbos (diesel)  
Less than 360 Cubic Inches – inner coolers allowed (diesel)
  - 6100lb. Super Stock—360 Cubic Inches—2 turbos
  - 8500lb. Class—466 Cubic Inches (no inner/after coolers)
  - 9500lb. Class—640 Cubic Inches
3. Engines can be modified up to limit but no tolerance above limit is allowed.
4. Engines may have a steel plate, maximum of 5/8 inch thick, between the block and head.
5. No recasted, billet, or aftermarket head allowed in any Xcaliber Pulling tractor classes with the exception of Extreme Super Stock. *Note: Must be able to bolt on stock intake and exhaust manifolds.*
6. Tractors may have only one injection pump limited to a P series Bosch with a maximum of one plunger per cylinder. 8300 Series injection pump will not be allowed in any Xcaliber Pulling tractor class. Maximum size injection pump is a P-Pump with maximum size plungers of 13mm.
7. Gas tractors are limited to one four-barrel carburetor. All fuel must be metered through the carburetor's metering jets. Alcohol may be injected under 20 psi before the turbo (gas tractors only)
8. No inner coolers allowed.
9. Maximum tire size allowed for competition in Limited Pro Stock classes is 24.5" X 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25".

## **6400lb Limited Prostock**

1. All competing vehicles must run VP fuel and water purchased from Litter Racing.
2. No Overhead cams allowed.
3. No recasted, billet, or aftermarket head allowed in any Xcaliber Pulling tractor classes with the exception of Extreme Super Stock. *Note: Must be able to bolt on stock intake and exhaust manifolds.*
4. No component tractors.
5. No inner coolers allowed.
6. Alcohol Super Stock can run diesel head with spark plugs.
7. Maximum tire size allowed for competition in the Super Stock class is 30.5" X 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 32".
8. Maximum tire size allowed for competition in all Limited Pro Stock classes is 24.5" X 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25 inches.

## **6400lb Limited Prostock Turbo Rules:**

1. Turbo compressor measurement to be measured at the face of the wheel inlet a maximum of 3.0 inches. The wheel may be no larger than this measurement at the inlet. One map width enhancement groove of .200 allowed. Wheel must protrude into housing 1/8 of an inch. All air must enter through 3 inch hole. Must be 3 inches on both side of map width enhancement groove. At least 1/8 inch on back side of map width enhancement groove must be 3 inch diameter.
2. Exhaust outlet is to be no larger than four inches at the face of the exhaust wheel. Exhaust wheel shall be no larger than 4" at its face and taper back from face evenly with no steps.
3. 6400lb Gas Tractors will be allowed to run waste gates.

## **8500lb Limited Prostock Turbo Rules:**

1. The compressor inlet measurement to be measured at the face of the wheel a maximum of 3.0 inches. Tips of wheel must protrude into 3 inch opening at least 1/8 of an inch. *Note:* Housing may use a reducer or slug if welded in place. No setscrews or provisions to remove slug. Tips of wheel must still protrude into opening.
2. The exhaust outlet measurement to be measured at the face of the wheel a maximum of 4.0 inches. Tips

of wheel must protrude into 4 inch opening at least 1/8 of an inch. *Note:* Housing may use a reducer or slug if welded in place. No setscrews or provisions to remove slug. Tips of wheel must still protrude into opening.

3. No functional waste gates. No air entry after 3 inch opening in compressor or 4 inch opening in exhaust housing. No map width enhancement grooves. No variable geometry turbos. *Note:* Waste gated exhaust housing allowed, but must be altered to look like non-waste gated exhaust housing. All passages internal and external must be plugged.
4. The maximum allowed clearance on each side between turbine wheel and the 3 inch opening when measured at the 1/8" protrusion not to exceed .050 maximum. This applies to both intake and exhaust sides.
5. Rules are locked in for 3 years (thru 2017 season).

### **9500lb Limited Prostock Rules:**

1. All competing vehicles must run VP fuel and water purchased from Liter Racing.
2. No component chassis.
3. 24.5-32 maximum size tires. HP pulling tires will be allowed.
4. 9500 pounds maximum weight
5. No engine larger than 640 cubic inches (+ or—1%)
6. A maximum bore center limit of 4.875".
7. Deck plate allowed up to .625 thick.
8. Engine must be OEM agricultural-type for that brand of tractor. Cylinder head port location must be same as stock with manifolds using stock port bolt patterns.
9. Recast cylinder heads allowed, no billet cylinder head allowed.
10. Aftermarket manifolds allowed and must bolt in original port bolt location.
11. No overhead cams.
12. Maximum 2 valves per cylinder.
13. No inner - after coolers allowed.
14. Maximum size injection pump is a 7100p-pump with maximum size plungers of 13mm.
15. Fuel and water sample valve mandatory.
16. Mandatory turbo for this class is a smooth bore 4.1 Holset from Excel Engineering or Diesel Performance built specifically for OTTPA and Xcaliber Pulling. Excel Engineering 641-734-5800 Diesel Performance Engineering 816-324-6680.
17. When co-sanctioned events with OTTPA, run OTTPA rules, and points awarded at all events.

### **6000lb Extreme Super Stock**

#### **Chassis**

1. All competing vehicles must run VP fuel and water purchased from Liter Racing.
2. Only engine considered legal to be used in Super Stock division must be available in 2 wheel drive farm tractors.
3. Maximum distance of 1 5/8 inch deck plate between bottom of cylinder head and top of engine block.
4. A maximum allowance of .130 total gaskets with a maximum of 504 cubic inch total.
5. All tube ladder-type frames must be covered on outside with steel or aluminum 0.060 thick and run in the same plain as the crankshaft.
6. Appearance to remain stock of given brand and model.
7. Agricultural type rear ends—no component types.

#### **Engine**

1. Light Super Stock class limited to 505 Cubic Inches.
2. Engine block of given brand to remain consistent with that brand sheet metal. The engine block cannot be modified externally from OEM configuration, except for normal repair or for mounting of fuel injection pumps.
3. Aluminum cylinder heads are legal.
4. Only 2 valves per cylinder must be parallel with each other and parallel within 15 degrees of cylinder wall. No overhead cams or hemi-style heads allowed in Extreme Super Stock division.

5. OEM heads or 2 valves aftermarket heads allowed.
6. No operating inner coolers allowed.
7. No fuel or water performance enhancing additives.
8. 44 Mag or larger ignition not allowed.

#### **Tires**

1. Tires no more than 30 1/2 inches wide.
2. Rim diameter limited to 32 inches on tire widths over 24 1/2 inch.
3. HP Tires allowed with a 360 ci or less engine.

#### **Competition**

1. Alcohol tractors can weigh 6100 pounds
2. Diesel tractors can weigh 6400 pounds
3. If 360 cu in and below alcohol engines can run 6400lb and HP Tires
4. No component tractors in the Extreme Super Stock class.
5. Maximum size injection pump is a 7100 P-Pump with maximum size plungers of 13mm. No 8300 P-Pump. Sigma fuel injection pumps allowed but tractor must drop 200lbs.
6. 510 to 640 cubic engines are limited to a 4.1 turbocharger.

**\*\* All General Tractor and Safety Rules Apply to this Class\*\***

#### **Tractor Fuel Rules**

1. All diesel tractors must operate on VP fuel. No alcohol or performance type additives allowed in any injection systems will be allowed in diesel tractors.
2. Gas tractors must be fueled with gasoline only. Alcohol may only be used as a coolant under low pressure.
3. No oxygen, ether, propane, nitrous oxide, alcohol, or chemical based fuels can be used.
4. 6100lb Super Stock is allowed alcohol.
5. All Xcaliber Pulling tractor classes must run fuel and water purchased from Liter Racing (VP Fuel)
6. Fuel valve must be plumbed closest to the injection pump. The water valve must be plumbed closest to the water activating valve. Any tractor that is not plumbed for fuel and/or water test will be fined \$30 for the first violation. Any subsequent violation will result in tractor, driver, and owner being banished from all Xcaliber Pulling events for a year and a day from the date of violation.

#### **Tractor Tire Rules**

1. Contest is limited to rubber-tired tractors only. No tire chains, dual tractors, or four-wheel drives allowed. Cut/sharpened tires will be allowed.
2. Maximum tire size allowed for competition in all Limited Prostock classes is 24.5"X32" with a maximum of 210" circumference, when inflated to 10 psi. Tread width not to exceed 25".
3. Maximum tire size allowed for competition in the Super Stock class is 30.5"X32" with a maximum of 210" circumference when inflated to 10 psi. Tread width not to exceed 32".

#### **Prostock 4X4 Truck Rules**

1. All competing vehicles must run VP fuel.
2. Truck must weigh 6200lbs. No weight allowance.
3. Cubic inch maximum is 485 with a 1% variance.
4. Rear of engine block must be no closer than 14 inches +/- .250 inches to centerline of front axle.
5. Cast iron and/or aluminum OEM or aftermarket heads allowed. No Hemi type heads allowed. No more than 2 valves per cylinder
6. Engine block must be cast iron.
7. No split carburetors allowed.
8. Maximum engine bore spacing of 4.9 inch.
9. Any internal engine modification allowed.
10. Cast iron or cast aluminum single 4 barrel manifold required. No sheet metal intakes, tunnel rams or

any injection.

11. Fuel lines cannot be routed through cab, unless factory equipped.
12. Must have stock frame not to exceed OEM 1-ton, no complete tube chassis from rear axle forward.
13. Only one fuel tank or fuel cell allowed, and it must be full at weigh in.
14. If truck is equipped with fuel cell, it must be mounted in the bed or on the weight rack—from the grill forward.
15. Alcohol fuels are not allowed. Pump gas or racing gas only. Racing fuels can include oxygenated fuel.
16. No additives of any kind may be used in fuel.
17. Fuel may be checked if protested. Amount of protest money will depend on cost of fuel check (minimum \$50.00)
  - A. Person Protesting puts up money to have fuel checked. If legal, person protested gets half of the protested money. If illegal: 1st Offense: Driver and truck will sit out for 4 hooks with no points and no money. 2nd Offense: Driver and truck banned for 1 year and 10 days.
18. Any transfer case allowed.
19. Any transmission allowed.
20. Front axle is to be no larger than 1 ton.
21. Any rear axle allowed.
22. Maximum wheel base 133" with 1/2 inch tolerance.
23. Hitch must be the furthest point of truck, except for safety bumpers.
24. Maximum height of hitch-26" to point of hook.
25. The hitch must be solid in all directions and secured no more than 6" from hook point.
26. The hitch must have a minimum 3" X 3 3/4" oval opening.
27. Point of hitch to center of rear axle shall not be less than 36% of wheel base.
28. Hitch cannot rise before, during or after pull.
29. No clevis, chain or cable allowed in hitching device.
30. No portion of hitch can be greater than 25 degrees or less than 0 degrees.
31. Any hitch with adjusters on top of hitch must be equipped with adjuster on bottom of hitch attached within 6" of hook point and below centerline of rear end housing.
32. Hitch must be straight plane from hitch point to hook point. No Exceptions. No portion of hitch may attach to rear end housing except for adjuster bar.
33. Tires must be street legal, no tread alterations, no larger than 33X12.5 DOT approved or metric equivalent 305/70.
34. Body must be factory appearance. Fiberglass bodies allowed. Must have working driver's door.
35. Body must have firewall.
36. Dash and bed floor may be removed. If bed floor is removed, a bed cover must be ran.
37. Any header upright or down swept is allowed.
38. Front brakes or drive line brakes allowed.
39. Front and rear traction bars allowed.
40. Weight racks will be allowed, but cannot exceed 60 inches from center of front axle to farthest point of weights on rack.
41. Solid suspension allowed.
42. Track official has the right to red flag any truck slipping the clutch excessively or bouncing hard.
43. Foot throttles must be equipped with toe strap.
44. If hood is cut out for air cleaner, must run hood scoop. Hood scoop may be operational at rear.
45. No automatic traction control devices of any kind allowed.
46. Air bag suspension is not to be controlled from inside cab, air bag system is not to be adjusted after weighing and hitch check.
47. Truck sheet metal and engine must be of the same brand but frame can be different.

### **Modified Two Wheel Drive Truck**

1. All competing vehicles must run VP fuel.

2. Vehicle must weigh 6200lbs.
3. Limited to one engine.
4. No aluminum engine blocks, unless it is an aluminum small block with maximum bore space of 4.400
5. Aluminum heads.
  - A) No Hemi, No Billet
  - B) Only modification allowed is porting.
  - C) No external modification
  - D) Maximum of two valves per cylinder
  - E) Must have factory OEM port design (i.e. Ford 429 CJ, Chevrolet rectangle port).
  - F) OEM meaning used in passenger car.
6. No fabricated intake manifolds
7. 541 cubic inch limit naturally aspirated
8. Aluminum cylinder heads must fit OEM intake manifolds.
9. Any cast iron head may be used however it will have no more than 2 valves per cylinder
10. No adapter plate that will adapt or modification of heads or intake to accept OEM style bolt pattern intakes.
11. Planetaries are allowed.
12. Drive shaft must be enclosed with 1/8" steel or 3/8" aluminum
13. No four wheel drive lockout front ends.
14. Unused yokes must be enclosed with 1/8" steel or aluminum
15. Maximum wheel base is 15' from center of rear axle to furthest point forward, unless it is a fiberglass front bumper then it can be 15'6" from center of rear axle to furthest point forward. Does not include tow hitch.
16. Maximum tire size 18.4 X 16.1. No dual wheels.
17. Limited 2 carburetors.
  - A) Single Carb. must have 2 springs on the primary shaft.
  - B) Dual Carb. must have 2 springs on primary shaft, one on each side.
18. Fuel injection allowed.
  - A) Single shaft injectors must have two springs on butterfly shaft.
  - B) Multiple shaft injectors must have one spring on each butterfly shaft.
19. Gasoline and alcohol allowed.
20. No scented fuels allowed, no oxygenated fuel allowed. See USPA book referencing fuel and containers.
21. All throttles must be positive action, self returning.
22. Foot throttles must have toe strap
23. Truck or car bodies are allowed.
24. Truck must have a presentable bed.
25. Fiberglass bodies allowed.
26. Alcohol engines must exhaust upright.
27. Gasoline engines may have chassis headers, must exit straight to rear.
28. Exhaust shall not blow towards officials or spectators.
29. Hitch point cannot be less than 18" from center of rear axle.
30. No part of vehicle may extend more than 30" rearward of hitch point.
31. Maximum hitch height 31" for 0-485 C.I.
32. Maximum hitch height 30" for 486-541 C.I.
33. Maximum hitch height 32" small Cepeks
34. Must have sufficient hitch on front to tow vehicle.
35. Trucks will have wheelie bars which will extend 2 inches back from the furthest point of the tires— with a 5 inch square pad on the bottom or a 5X5 inch solid steel or aluminum roller mounted with a

- 3/4 inch grade 8 bolt that will not turn with the roller.
36. All drawbars must be parallel to the ground no more than 1 1/2" per foot of drawbar fall or increase.
  37. No L shape hitches
  38. No trick hitches, cam type rear ends drawbar.
  39. Hitch must be rigid in all directions
  40. No electronics to engage clutch.
  41. No electronic traction control devices, if found illegal the vehicle is banned from Xcaliber Pulling for 1 year 10 days.
  42. Refer to USPA rule book under fuel and fuel containers for fuel rules.

## **Modified Four Wheel Drive Truck Rules**

1. All competing vehicles must run VP fuel and water purchased from Liter Racing.
2. Vehicles must weigh 6200lbs.
3. Limited to a single automotive type engine.
4. Aluminum heads allowed with no more than 2 valves per cylinder.
5. No blowers
6. No turbo chargers
7. Engine must be within engine compartment, all engine components including pump, drive and harmonic balancer must be behind grill in and on the original position
8. Starter is not considered an engine component and may extend through the grill
9. Back of motor must not be in front of center front axle.
10. Any type of transfer case allowed.
11. Any transmission allowed
12. Axles must be centered in wheel well openings.
13. Axle bolts must have a 1/16" metal shield held securely in place.
14. Maximum of 133" wheelbase with 1/2" tolerance
15. No part of the truck may extend more than 60" forward of front axle. Front tow hook excluded.
16. No loose ballast weight allowed
17. Maximum tire size is 18" wide and 34" tall.
18. No dual wheels allowed.
19. All tires must have rubber or rubber compound between tires and ground.
20. Front and rear tires must track within centerline of each other.
  - A) The way it will be checked is—measure widest wheel base first, outside of tread to inside opposite tread. The narrow axle measurement must be equal to or larger than the wide axle measurement. The track or tread is not the side wall of tire.
21. Racing gas, pump gas, gasohol, or alcohol allowed.
22. No pressurized fuel systems.
23. No M3, M5, or oxygenated type gasoline fuels will be allowed. No nitro based fuels, synthetic nitro fuels, or power enhancing alcohol will be allowed.
24. No oxidizing type fuels
25. Top lube allowed.
26. Fuel protest allowed \$50.00 fee plus price of fuel test, \$50.00 fee will go to protested puller if found legal.
27. Any 4X4 truck or van body allowed.
28. Must have working driver's door
29. Fiberglass bodies allowed
30. Must look presentable with no significant body damage
31. Hood may be cut to allow for fuel and exhaust systems.
32. Must use a steel frame, no aluminum or magnesium allowed in frame rails.
33. Non-tinted front and rear glass or Plexiglas required.
34. Must have a full bed floor or bed cover.

35. Headers and open exhaust allowed but must exit up or down and back.
36. Exhaust cannot blow toward audience or track officials
37. Headers must exit up if alcohol fuel is used.
38. Hitch must be furthest point of truck except for safety bumpers.
39. Maximum hitch height 26" to point of hook.
40. Hutch must be solid in all directions and secured no more than 6" from hook point.
41. Hitch must have a minimum of 3"X3 3/4" oval opening.
42. Point of hitch to center of axle shall not be less than 36% of wheelbase.
43. Hitch cannot rise before, during or after the pull.
44. No clevis, chain or cable allowed in hitching device.
45. No portion of hitch can be greater than 33 degrees or less than 0 degrees.
46. If drawbar adjuster is attached to rear axle housing it must be attached at centerline or below.
47. Hitch supports from top must be vertical or leaning backward. Hitch supports from the bottom must be vertical or leaning forward.
48. Safety bumpers may extend 6" past hitch.
49. Safety bumpers are not mandatory, but highly recommended.
50. All automatic type clutches require operational inching pedal.

### **Prostock Diesel Truck Rules**

1. All competing vehicles must run VP fuel.
2. Diesel trucks only. Maximum weight 7800lbs minimum weight of 7200lbs
3. 2.6" turbo opening trucks can weight 8000lb and have hitch height of 27" providing they have a PPL approved turbo.
4. Trucks must remain stock appearing. Must have full size steel or OEM type body. The OEM chassis is mandatory. The engine must be in the OEM location for the body to be used. The vehicle must retain the full OEM chassis. Wheel tubs, back-half conversions, tube chassis, etc., are prohibited.
5. Maximum engine size will be 460 cu in. Engines must come from factory in one ton or smaller diesel pickup truck. Engine must remain in stock location as intended by manufacturer. No aftermarket blocks permitted.
6. Front of engine block can be no farther forward than 17" of centerline of front axle.
7. Hook point must be no closer than 44" of centerline of rear axle, hitch height maximum of 26" with a minimum of a 3.75" X 3" opening. Hitch point must be easily accessed. No "Trick" type hitches permitted. Hitch must be stationary in all directions. Hitch must be framed mounted. Hitch must be mounted centerline of rear axle or behind. Hitch must not exceed a maximum of 25 degree angle from pivot point to hook point.
8. One turbo with one pressure stage permitted. The turbo charger is smooth faced intake housing, limited to 3.6" inlet, (no map ring) with all air entering through the 3.6" opening. Intake wheel must protrude 1/8" inside of opening.
9. Exhaust must exit straight up, with (2) 3/8" bolts mounted in a cross pattern no more than 1" apart as close to the turbine wheel as possible, no more than 6" from turbine wheel.
10. No cast iron clutches or flywheels permitted.
11. Fuel safety kill and/or air shutoff must be installed on the rear of the truck. Kill switch will be securely mounted to the back of the vehicle and have a two (2) inch diameter ring to attach the sled.
12. No fuel lines or tanks permitted inside of truck cab unless securely mounted in marine box.
13. Computer chips and boxes permitted.
14. Fuel systems: Largest fuel injection pump allowed will be a P-Pump with only one plunger per cylinder (No Sigma P Pumps).
15. Must be DOT approved tire. Maximum tire height 35" no studded tire or chains. No alterations to tires allowed. No bar or terra tires. Dual rear wheels are permitted.
16. Bar and cut tires permitted. Maximum tire size to be 112 circumference, when inflated to 30 psi with original bar, not to exceed 18" in width before cutting. Maximum of 4 tires permitted when using

barred tires.

17. Water injection permitted.
18. Front weights must be no more than 60" from the center line of the front axle to forward most point and be securely fastened. No weights are allowed in cab of truck if in bed of truck they are to be securely fastened to bed of truck.
19. Fuel limited to diesel fuel and bio-diesel only. No alcohol, nitrous, propane or any oxygen enhancing agents allowed.
20. Drive train will consist of the following: Any front axle, any transfer case, any rear axle. No planetaries permitted.
21. OEM chassis only, no tube chassis permitted.
22. Axle shields are required. Shield to be .060" thickness steel or aluminum. Shield not to be mounted to axle ends or hub bolts. A hole may be cut in one to allow locking in of hubs.
23. SFI Bell Housing Blanket and/or SFI blow proof bell housing required.
24. All U-Joints must be shielded 360 degrees with 3/8" thick aluminum or 5/16" thick steel. Shield will be 6 inches long minimum and centered on u-joint. Inside diameter of shield will be no more than 2 inches larger than u joint.
25. All intermediate shafts between the transmission transfer case will be totally enclosed in 3/8" aluminum or 5/16" steel 1/4" of shaft may be visible.
26. Suspension modification are permitted. Removable suspension block as permitted.
27. Fire extinguishers, helmets Snell 2000 or better, SFI fire suits, shoes and seatbelts required.
28. Maximum wheel base 158" and 102" maximum track width (outside tire to outside tire).