



P.O. Box 9  
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## 2019 SS Pulling Series Rulebook

### General Rules:

1. All rules of grounds apply. All laws and regulations apply.
2. All drivers MUST have valid driver's license or permit. Any driver under the age of 18yrs must have written consent from legal guardian to compete. No drivers under the age of 16yrs.
3. ALL TRUCKS must be equipped with a minimum of 1lb dry charge fire extinguisher inside cab.
4. No passengers allowed in or on vehicle while on pulling track or in staging.
5. Consumption of alcohol before or during the event by driver or crew member will result in disqualification, loss of entry fee and possible ejection from grounds if a no alcohol facility
6. All drivers must sign a waiver stating they are competing at their own risk not holding responsible any track official, promoter, grounds owner or any affiliated parties liable under any circumstances. By signing He/She agrees to all rules set forth, including rules of class(es) entered and agrees her/his vehicle meets all class rules, even those un-techable.
7. All vehicles MUST operate in a safe manner, at all times
8. Any assistance vehicles including but not limited to: gator, RZR, etc. will be registered and approved with association before unloading.
9. Puller is allowed a second attempt at pull if vehicle is shut down before the 75ft mark. DO NOT hit brakes.
10. Test puller is first truck to run in class. He/She may drop hook and return to re-pull at end of class. Pulling will be done in numerical order by lottery. Numbers will be given out at time of registration.
11. All pulls must start with tight chain, no jerking of any kind, no shifting of standard transmissions during pull.
12. All vehicles are subject to technical inspection prior to event start. Any vehicle may be re-teched during the event at any time at tech official discretion. Top 5 finishers of every class are subject to re-tech upon class finish.

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13. Hitches will be of sturdy construction with a minimum of 3 3/4in diameter hole at hook point.
14. No modifications to tires are allowed with exception of cut tire classes. All other classes must be DOT tires. Chains, grooving, paddles, studs, etc are prohibited.
15. Any vehicle losing weights while going down the track will result in disqualification and immediate red flag will be dropped.
16. Vehicles bumping up classes MUST comply with all safety specifications of class bumping up to. NO EXCEPTIONS.
17. Any vehicles going over 320ft will be subject to a pull off after the next consecutive class. No test puller for pull-off. What you pull in pull-off is final.
18. Tech officials' decision is final.

### **Safety Quick Reference – Refer to class rules for complete ruleset**

- *Vehicles utilizing a non- OEM turbocharger must have two 3/8" grade 8 bolts mounted in a cross pattern no more than 1" apart as close to turbine wheel as possible and before any bends in the downpipe*
- *Any vehicles utilizing nitrous or other injectables, must have full fire suit 3.2A/5 minimum rated jacket and pants. Closed toed shoes, gloves and full face helmet SNELL rating 2010 or 2015 mandatory.*
- *All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.*

#### *ALL Pullers:*

- *DOT rated helmet, must be worn and secured while truck is hooked to the sled*
- *Closed toed shoes, long pants must be worn*
- *OEM Safety restraints must be operative and worn while hooked to the sled*
- *All drivers must have a valid state driver's license*

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*Street Class (including Street Gas & Unlimited Street Diesel) – all the above plus:*

- *Working, up to date fire extinguisher, in cab and secured within driver's reach*
- *Working neutral safety switch and working neutral light*

*Workstock, Enhanced Gas - all the above plus:*

- *All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.*
- *Rear axle bolts must be covered by a cap or shield.*

*Modified Diesel, ProStock Gas - all the above plus:*

- *All trucks must have U-joint shield covering 360 degrees with 3/8-inch-thick aluminum with 1/8 inch steel liner OR 5/16 inch thick steel. Shield must be minimum of 6 inches long and centered on u-joint. Inside diameter of the shield must be further than 2 inches from u-joint.*
- *All trucks are required to have kill switch located on the back of the truck, near the hooking point. Trucks with an electric injection fuel pump must have an electric shut off or disconnect for the injection pump on the back of the truck. Trucks with manual injection pumps must have an air guillotine of the spring-loaded type, no butterfly type, to kill the air intake to the engine. Trucks MUST have a functioning kill switch. Kill must be securely mounted to the back of the vehicle and have a metal ring, 2 inches in diameter, to attach to the sled.*
- *All drivers must wear a helmet, and SFI 3.2a approved fire jacket and long pants, not necessarily fire suit pants.*
- *All transmission lines must be metallic or high-pressure type hose.*
- *All transmissions or clutch pedals will have a safety interlock switch so that vehicle will not start in gear.*
- *Transmissions:*
  - *Manual: All clutches and flywheels must be SFI approved. No cast iron clutches or flywheels permitted.*
  - *Automatic: Must have SFI Spec. 29 automatic transmission flex plate. Cast iron prohibited. Must use positive gear lockout.*

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- *All transmissions must have an approved safety blanket/shield over the torque converter area. Blanket or shield must meet SFI Spec. 4.1.*
- *All transmissions must have an approved safety blanket/shield over the torque converter area. Blanket or shield must meet SFI Spec. 4.1.*
- *All trucks must have drive shaft loops.*

*SuperStock Gas,*

- *Full firesuit minimum of SFI 3.2A/5 must be worn during competition. Includes jacket, pants, shoes, gloves, helmet sock, SNELL rated 2010 or 2015 closed face helmet.*
- *SFI blow proof blanket/shield and/or SFI blow proof bell housing required.*

*Limited Pro Diesel, Outlaw DOT Diesel (all the above PLUS):*

- *Engine must have cable surrounding block and head. Cable must pass through manifolds. Cable must be minimum 3/8 inch diameter, located between cylinders 1 and 2. Cable must have 4-6 inch slack with a minimum of 4 cable clamps per splice.*
- *Engine must have deflection shield running the complete length of block casting equating to steel inner fender. Shield must be at least 0.60 inch thickness.*
- *Secondary hitch required. Must be minimum of 3/8 inch steel located below primary hitch on the same vertical plane (meaning they should line up so you can see through both at the same time).*
- *Working kill/air shut-off mandatory. Air shut-off must have one cable that goes to the rear of the truck to be operated by sled and one cable that goes in the cab for driver use. Cable must be securely mounted to the back of the vehicle and have a metal ring, 2 inches in diameter, to attach to the sled.*
- *All intermediate shafts between the transmission and the transfer case will be totally enclosed in 3/8 inch aluminum OR 5/16 inch steel. Max 1/4 inch of shaft may be visible.*

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**\*\*\*Rules are subject to change ONLY for safety or insurance regulations. We would like to wish all competitors a safe and fun season. Please don't hesitate to contact us with any questions. SS affiliated benefit pulls will also follow these guidelines.\*\*\***

## **2019 DIESEL CLASSES:**

**Unlimited Street** – This class was designed for trucks that run on the street who want to pull, but do not fit in another class. Please take note, the hitch height in this class is lowered in an attempt to prevent breakage to the street trucks. This will be a points and payout class for the 2019 Season.

1. 8500lbs Maximum weight.
2. All trucks/vehicles must be registered, tagged and insured.
3. The body must be the OEM truck body, including the full bed floor. No flatbeds permitted. The body must retain full sheet metal, after-market hoods are permitted. The hood must be closed and securely latched while the vehicle is hooked to the sled. Complete working head light and tail light assemblies are mandatory.
4. Full interior from factory is a must. Full body panels required. If any aftermarket panels are installed, they must be commercially offered.
5. No front hanging weight. Hidden weight is allowed and must be secured. Weights may be hung in the bed, must be secured.
6. Must have factory driveline.
7. Turbo bolts are MANDATORY on any vehicles that have removed catalytic converter and/or muffler. Two - 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.
8. Hood stacks & hand throttles permitted.
9. No turbo limitations, big singles, compounds, twins, triples, etc. allowed.
10. ***\*\*\*If running nitrous, minimum of full single layer fire suit, full face helmet, and close toed shoes REQUIRED. A secured & up to date fire extinguisher in cab is required. It is the job of the competitor to notify tech officials of nitrous. Anyone running nitrous without proper equipment***

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***and/or notification to tech official will result in IMMEDIATE disqualification in any/all classes. No refund, no payout, no points will be accumulated.\*\*\****

11. Reese style hitch. Hook point must be no closer than 44" of centerline of rear axle, hitch height maximum of 20", with a minimum of a 3.75" X 3.0" opening. Hitch point must be easily accessed. No "trick" type hitches permitted. Hitch must be stationary in all directions. Hitch must be frame mounted. Hitch must be mounted centerline of rear axle or behind.
12. Unaltered, DOT tires mandatory. No cuts allowed.

**Workstock Diesel** - Workstock is designed for daily-driven pickups. Must be registered, tagged and insured. Trucks do not have to be driven in the gate but must be capable of driving on the street.

1. 8500lbs. Maximum weight
2. Hanging front weights are prohibited. Weight may be added in the bed of the truck, must be secured. No hidden weight allowed.
3. Must be the OEM truck body. The body must retain full sheet metal. Metal aftermarket hoods are permitted. Fiberglass hoods are permitted with a sheet metal or aluminum skin shield underneath of at least .060" thickness. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and OEM floor pan is mandatory. A factory installed pickup bed or commercial style aftermarket bed must be installed.
4. Four-wheel hydraulic functional brakes are mandatory.
5. The OEM chassis is mandatory. The engine must be in the OEM location for the body used. The vehicle must retain the full OEM chassis. Wheel tubs, back-half conversions, tube chassis, etc. are prohibited.
6. Radiators must be in the stock location and be at least stock size.
7. The engine is limited to a stock-appearing, OEM make-specific compression ignition engine. The engine block must have been available as a factory option on a one ton or smaller pickup truck. Blocks must circulate coolant freely. No hard filled blocks. Electric water pumps allowed. Electric cooling fans allowed. All other accessories must be powered by factory belting.
8. All vehicles must be equipped to direct exhaust upward or downward. The exhaust must exit rearward of the driver's compartment. No hood stacks or fender exhaust allowed. **Turbo bolts are MANDATORY on any vehicles competing that have removed catalytic converter and/or muffler**

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and do not have original, OEM turbocharger. Two - 3/8" bolts - mounted in a cross pattern no more than 1" apart as close to the turbine wheel as possible, before any bends in the downpipe.

9. The fuel must be pump #1 or #2 diesel only. Soy/Bio-diesel fuel is permitted. Off-road diesel fuel is prohibited. No injectables of any kind including but not limited to: Nitrous, Propane, Water Meth, etc. If systems are on truck, bottles must be removed, and lines emptied.
10. The fuel injection pump is limited to a stock-appearing, OEM engine model-specific pump only. The use of multiple high-pressure common-rail fuel pumps is permitted. Powerstroke engines with a single factory turbo may utilize a second HPOP. Pumps from different years in the same engine model may be interchanged. Cylinder number specific (ie: 6-cylinder pump on a 6-cylinder engine). Sigma or 12-cylinder pumps are prohibited.
11. The OEM fuel tank is mandatory and must be used. Racing fuel cells are prohibited and must be removed from the vehicle.
12. All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1. This is for driver safety. Please comply as this is not a tech-able item.
13. The hitch must be a receiver-style hitch; reinforcements are permitted. Reinforcements must not extend forward of the centerline of the rear axle or to the axle housing itself. Trick hitches are prohibited. The hooking point must be the rear-most point on the vehicle and must be rearward of the stock location of the tailgate. The hitch must be horizontal to the ground and stationary in all directions. Bumpers may be notched or removed. The hitch height from the ground may not exceed 26 inches on 4wd units and 30 inches on 2wd units. The hooking point must have a minimum 3.750-inch inside diameter opening for the sled hook. The hooking point will be measured to the center of the clevis loop.
14. Factory style or aftermarket air-air coolers are permitted. Water-to-air coolers are prohibited. Any means of cooling the air before the engine, except the air-air cooler is prohibited. 6.7L Powerstrokes may utilize unaltered, OEM, factory water to air intercooler system.
15. A complete interior, including dashboard, door panels, headliner, etc. is mandatory. Two matching front seats are mandatory. Aftermarket seats are permitted; they must be fully upholstered.
16. Non-OEM rear-end housings are prohibited. It must have been an option on a one-ton or smaller pickup. Rear axle bolts must be covered by cap or shield.
17. The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non-OEM power assist methods are prohibited.
18. Complete headlight and tail light assemblies (all) are mandatory and must be operational. Complete OEM windshield and windows are mandatory.

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19. The upper mounting point for strut assemblies must be in the factory location. Adjustable caster/camber pillow ball mounts are permitted. The lower control arm may be strengthened provided factory-mounting points to the chassis are maintained. The lower mounting point for the strut assembly may be modified for improved caster or camber. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars are permitted.
20. The rear suspension must maintain a minimum compression shock travel of one inch; compression stops must be adjustable. All rear suspensions must use at least one working shock absorber per wheel. Airbag spring assistance is permitted; airbag compressors must be disconnected.
21. The tires must be DOT street tires. Cut tires are prohibited. Tire tread width must be no larger than 50" combined/total.
22. The use of tow vehicle is prohibited.
23. Non-OEM transfer cases are prohibited. The transfer case must have been an option on a one-ton or smaller pickup truck.
24. Non-OEM transmissions are prohibited. Aftermarket torque converters, valve bodies and internal components are permitted. Transmission brakes are prohibited. Any non-OEM floor-mounted automatic transmission shifter must be equipped with a spring-loaded positive reverse lockout device to prevent the shifter from accidentally being put into reverse gear. A functional neutral safety switch is mandatory. All transmission lines must be metallic or high-pressure-type hose. All vehicles with engines running 4500 RPM or more and using an automatic transmission must be equipped with a transmission shield meeting SFI Spec 4.1 and must be labeled accordingly. A blanket-type shield is permitted; it must be appropriately labeled as meeting SFI Spec 4.1 and it must extend from the rear of the block to the front of tail housing with a minimum six (6) inch overlap where it is fastened. All non-blanket-type shields must incorporate two (or one, per manufacturer's instructions) 3/4 inch by 1/8 inch straps that bolt to the shield on each side and pass under the transmission pan unless the transmission pan is labeled as meeting SFI Spec 4.1. All vehicles with engines running 4500 RPM or more and using an automatic transmission must be equipped with a flex plate meeting SFI Spec 29.1 and be covered by a flex plate shield meeting SFI Spec 30.1.
25. The turbocharger is limited to a stock-appearing, OEM/Factory make specific charger only. Turbochargers from different years in the same make may be interchanged, no adapters to accept other model turbo. 6.4L Powerstroke engines may utilize the factory twin-turbo configuration and must retain complete OEM turbos, no aftermarket work is allowed.
26. The vehicle must retain the original factory wheelbase and track width.



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## Modified Diesel (2.5)

1. 8000lbs Maximum weight.
2. Front hanging weight and hidden weight is permitted. No weights permitted in the cab of truck. Hanging weight must be no more than 60 in. from center of front axle.
3. Batteries must be securely mounted anywhere, but if in cab must be covered completely.
4. The body must be the OEM truck body including the full bed floor. The body must retain full sheet metal. Metal aftermarket hoods are permitted. Fiberglass hoods must be shielded on the underneath side with sheet metal or aluminum skin a minimum of .060 thickness. The hood must be closed and securely latched while the truck is hooked to the sled. The complete OEM firewall and complete OEM floor pan is mandatory. A factory installed pickup bed or commercial aftermarket bed must be installed. Flatbeds permitted.
5. Front wheel hydraulic brakes are mandatory and must be functional.
6. OEM chassis is mandatory. The engine must be in the OEM location for the body used. Wheel tubs, back half conversions, tube chassis, etc. are prohibited.
7. Radiators must be in stock location and anti-freeze MUST circulate through the block and the head.
8. No injectables of any kind, including but not limited to: Nitrous, Water Meth, Propane, etc.
9. An OEM transmission and transfer case are mandatory. Must have been an option on a one ton or smaller pickup.
10. All trucks must have U-joint shield covering 360 degrees with 3/8-inch-thick aluminum with 1/8 inch steel liner OR 5/16 inch thick steel. Shield must be minimum of 6 inches long and centered on u-joint. Inside diameter of the shield must be further than 2 inches from u-joint.
11. The engine is limited to a stock appearing, OEM compression engine, available from the factory in a one ton or smaller pickup truck. Cubic inch limit of 444 CI. Water pumps may be electric or factory. Electric cooling fans are permitted. No deck plate motors allowed.
12. All vehicles must be equipped to direct exhaust upward. The exhaust must exit rearward of the driver's compartment. Stacks exiting through the hood or fender wells are prohibited. If the muffler or catalytic converter were changed from stock, turbo bolts are MANDATORY. Two (2) 3/8-inch diameter bolts must be installed through exhaust pipe in a cross pattern within one (1) inch of each other and as close to the turbo as practical.
13. A fire extinguisher system is permitted, it must be securely mounted. All vehicles are required to have at least a 2 ½ lb. extinguisher with working gauge securely mounted within drivers reach.
14. Fuel must be commercially available and be pump #1, #2 diesel, or Soy/Biodiesel. Fuel cells may be used in place of regular fuel tank. Can be mounted anywhere except the cab.

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15. Fuel injection pump is limited to cylinder number specific (i.e. 6-cylinder pump on 6-cylinder motor). The use of multiple high-pressure common rail fuel pumps or HPOPs are permitted. The P-pumps allowed are the p3000 and the p7100. Ag governors are allowed. No Sigma or 12-cylinder pumps allowed.
16. Hitch must be a receiver style hitch, reinforcements are permitted. The hitch must be horizontal to the ground and stationary in all directions. Bumper may be notched or removed. The hitch height from the ground may not exceed 26 inches. The hooking point must have a minimum of 3 inch by 3 ¾ inch inside opening for the sled hook and may not go above the frame. The hooking point must be a minimum of 44 inches from the center of the rear axle to the hooking point. Hooking point is defined by where the hook lays on the hitch. May have drawbar type hitch. No part of the hitch can be above the frame rails. Drawbar angle must not exceed 25° angle from the pivot point to the hook point.
17. Only air-air intercoolers permitted. No types of water- to-air coolers, no spray bars or water injection allowed. No individual runner intake manifolds allowed. 6.7L Powerstrokes may utilize factory water to air intercooler system.
18. Interior may be stripped with just a driver's seat and a dash. Hand throttles are permitted.
19. All trucks are required to have kill switch located on the back of the truck, near the hooking point. Trucks with an electric injection fuel pump must have an electric shut off or disconnect for the injection pump on the back of the truck. Trucks with manual injection pumps must have an air guillotine of the spring-loaded type, no butterfly type, to kill the air intake to the engine. Trucks MUST have a functioning kill switch. Cable must be securely mounted to the back of the vehicle and have a metal ring, 2 inches in diameter, to attach to the sled.
20. OEM rear-end housings are mandatory. The rear end housings must have been option for a one ton or smaller pickup. Rear axle bolts must be covered by a cap or shield.
21. All drivers must wear a helmet, and a SFI 3.2a approved fire jacket and long pants, not necessarily fire suit pants.
22. The vehicle must retain the full original OEM steering gear box. Additional stabilizers are permitted. Non-OEM power assist methods are permitted.
23. The factory suspension configuration must be retained. The upper mounting point for strut assemblies must be in factory location. Adjustable caster/camber pillow ball mounts are permitted. The lower control arm may be strengthened provided factory mounting points are maintained. The lower mounting point for the strut assembly may be modified for improved caster and camber. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Air shocks are prohibited. Must be an OEM front end housing. An OEM style rear end is mandatory. Traction bars and devices are permitted, and welds are permitted for attachment to the

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- frame or axle housing. The rear suspension may be solid. Air bags are permitted, on board compressors must be disconnected.
24. Tires must be DOT street tires. 35" inch maximum tire height and 12.50-inch tire width. Cut tires are prohibited. No chains, studs or alterations to tires are permitted. Dual rear wheels are prohibited.
25. Non - OEM transfer cases are prohibited. It must have been an option on a one ton or smaller pick-up truck. Non - OEM transmissions are prohibited. Aftermarket torque converters, valve bodies and internal components are permitted. Transmission brakes are prohibited. Any non - OEM floor mounted automatic shifter must be equipped with a spring-loaded positive reverse lockout device to prevent the shifter from accidentally being put into reverse. A functional neutral safety switch is mandatory. Vehicle must not start in gear. All transmission lines must be metallic or high-pressure type hose. All vehicles using an automatic transmission must be equipped with a transmission shield meeting SFI Spec 4.1 and must be labeled accordingly. A blanket type shield is permitted, it must be appropriately labeled as meeting SFI Spec 4.1 and it must extend from the rear of the engine block and extend rearward to the transmission with a minimum of six (6) inch overlap where it is fastened. All non-blanket shields must incorporate two (or one per manufacturer's instruction) ¾ inch by 1/8-inch straps that bolt to the shield on each side and pass under the transmission pan unless the transmission pan is labeled as meeting SFI Spec 4.1. All vehicles with an automatic transmission must be equipped with a flex plate meeting SFI Spec 29.1 and be covered by a flex plate shield meeting SFI Spec 30.1. All trucks with manual transmissions must use a clutch meeting minimum SFI Spec 1.1 or 2.1. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All vehicles equipped with a manual transmission must have a flywheel shield labeled as meeting minimum SFI Spec 6.3 or greater. Applications for which an SFI Spec flywheel shield is not available may use a properly attached SFI 4.1 or 4.2 blankets that completely cover the bell housing. It must be attached to the rear of the engine block and extend rearward to the transmission with a minimum of six (6) inch overlap where it is fastened. All transmissions or clutch pedals will have a safety interlock switch so that vehicle will not start in gear.
26. **Turbo Chargers.** Trucks may utilize any turbo configuration described below. Any charger questions need to be taken up with tech officials in writing PRIOR to an event. Tech discretion is FINAL. All turbos will be plugged prior to event. The driver will be responsible for making turbo accessible for tech personnel to measure and inspect. If you have any questions regarding turbo rule contact: [info@smokeandspeed.com](mailto:info@smokeandspeed.com)
- a. Large Frame 2.5 Chargers: turbocharger may be a s400 true bore 2.5 charger with a T-4 mounting flange, is the largest allowed. No clipped wheels or step-down covers. The wheel must protrude into the 2.5 bore 1/8 inch. Throat area of

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compressor cover may not exceed 5.5-inch diameter. Billet compressor wheels are allowed. All air must go through the 2.5 inducer bore and the MWE groove. Turbo will be checked with a 2.550 plug or internal calipers.

- b. Small Frame 2.5 Charger: Using a single small frame (S300, GT4094, HX40 or smaller) turbocharger, the compressor inducer being 2.5" in diameter. Bushings are permitted but must be non-removable, the bushing must maintain a 2.5" diameter for at least 0.250" in front of the compressor wheel and may be no farther than 0.175" from the face of the compressor wheel at any point. A map width enhancement (MWE) groove is allowed in the original location with a maximum width no greater than 0.200" at any point, any provision allowing air into the wheel other than via the bore and MWE groove is prohibited. Billet compressor wheels are allowed. All air must go through the 2.5 inducer bore and the MWE groove. Turbo will be checked with a 2.550 plug or internal calipers.
  - c. 2.6 Smooth Bore Charger: Smooth faced intake housing, limited to a 2.6" inlet – no map ring – with all air entering through the 2.6" opening. Intake wheel must protrude 1/8th inch inside of opening. S-400 and GT 42 and turbo of this type is the largest turbo allowed. T-4 mounting flange is the largest allowed. Billet compressor wheels are allowed. Covers will be plugged from the back side to verify that where the wheel protrudes it is a maximum of 2.6". Turbo checked with a 2.605" plug.
  - d. Ford 6.4L Power Stroke engines may utilize the factory compound turbo configuration, must measure factory size max. (2.59") atmosphere inducer. Aftermarket exhaust manifolds are permitted with a flange dimension no larger than T4 (3.500 x 2.750").
27. Water injection is prohibited. All system components must be removed from truck.
28. Vehicle must retain the original factory wheel base and track width. Cab and chassis trucks may not exceed 172 inches center to center of axles. Front dual-wheel spacers may be used only with accompanying positive-offset dually style wheels.

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## Limited Pro Stock Diesel 4x4

1. 8000lbs. Maximum weight.
2. Hidden weight is permitted. Hanging weights may not extend more than 60 inches from the centerline of the front axle. No weights allowed in the cab. All weights must be securely fastened. Any loss of weight will result in disqualification.
3. Batteries must be securely mounted. They may not be located in the driver compartment or forward of weight bar. If not in stock OEM location must be in an approved battery box and have a master disconnect switch that is easily accessible and clearly marked.
4. The body must be an OEM truck body, including the full bed floor. The body and truck bed must retain full factory sheet metal. Metal aftermarket hoods are permitted. Fiberglass is prohibited. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and complete OEM floor pan is mandatory. No Flat Beds. A truck that has a "Modified" OEM Frame/Body is limited to 158" wheelbase. The modifications must use all OEM parts for modification.
5. OEM chassis is mandatory. The engine must be in the OEM location for the body used. The vehicle must retain the full OEM chassis. Wheel tubs, back-half conversions, tube chassis, etc. are prohibited. Max Wheelbase 158 inches. Max track width (outside tire to outside tire) 102 inches.
6. Front brakes are mandatory.
7. Cooling System is optional.
8. Open Drive Line is permitted. No planetaries allowed.
9. OEM restraint system is mandatory and must be worn. A single aftermarket seat is permitted but must be equipped with proper safety restraint system.
10. All trucks must have U-joint shield covering 360 degrees with 3/8-inch-thick aluminum with 1/8 inch steel liner OR 5/16 inch thick steel. Shield must be minimum of 6 inches long and centered on u-joint. Inside diameter of the shield must be further than 2 inches from u-joint.
11. The engine block must have been available as a factory option on a one-ton or smaller pickup. Engine must be in OEM location. Engines need not be make/model specific. Head must be OEM or OEM cast replica for brand specific engine. Head must retain OEM valve angle. Billet heads prohibited.

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12. Engine must have cable surrounding block and head. Cable must pass through manifolds. Cable must be minimum 3/8-inch diameter, located between cylinders 1 and 2. Cable must have 4-6-inch slack with a minimum of 4 cable clamps per splice.
13. Engine must have deflection shield running the complete length of block casting equating to steel inner fender. Shield must be at least 0.60-inch thickness.
14. Working kill/air shut-off mandatory. Air shut-off must have one cable that goes to the rear of the truck to be operated by sled and one cable that goes in the cab for driver use. Cable must be securely mounted to the back of the vehicle and have a metal ring, 2 inches in diameter, to attach to the sled.
15. SFI approved 3.2/5, full fire-suit required for all drivers. Includes: jacket, pants, shoes, gloves, helmet sock, etc. Current dated SNELL (2010 or 2015) approved closed-face helmet is mandatory.
16. All vehicles must be equipped to direct exhaust upward including stock exhaust systems. Hood stacks are permitted. Two 3/8-inch diameter bolts must be installed through the exhaust pipe in a cross pattern within one inch of each other as close to the turbo as is practical and before any bends in the downpipe. Hood stack exhaust must be at least 6" above closed position of the hood.
17. The fuel injection pump is limited to a stock-appearing, OEM engine make-specific pump only. Dual high-pressure common-rail fuel pumps or HPOPs are permitted. Maximum size of a P7100 of pump. One plunger per cylinder, no Sigma, Billet or re-cast pumps. Electronic fuel injection is permitted. A 3-way dump valve mounted before the injection pump is mandatory and must be able to be operated from driver seat.
18. No fuel lines or tanks permitted inside the cab unless securely mounted in a marine box.
19. Diesel fuel only. No injectables of any kind, including but not limited to: Nitrous, Water Meth, Propane, etc. All system components MUST be removed.
20. All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.
21. Transmissions:
  - a. Manual: All clutches and flywheels must be SFI approved. No cast iron clutches or flywheels permitted.
  - b. Automatic: Must have SFI Spec. 29 automatic transmission flex plate. Cast Iron prohibited. Must use positive gear lockout.

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22. All transmissions must have an approved safety blanket/shield over the torque converter area. Blanket or shield must meet SFI Spec. 4.1.
23. SFI blow proof blanket/shield and/or SFI blow proof bell housing required.
24. All intermediate shafts between the transmission and the transfer case will be totally enclosed in 3/8-inch aluminum OR 5/16 inch steel. Max ¼ inch of shaft may be visible.
25. Ice water intercoolers are permitted.
26. Hitch reinforcements are permitted. Any hitch attachments/bracing must be from frame down not from axle up. Reinforcements must not extend forward of the centerline of the rear axle. Hook point may be no closer than 44" inches of centerline of rear axle. Trick hitches are prohibited. The hitch must be stationary in all directions. Bumpers may be notched or removed. The hitch height from the ground may not exceed 26" and must be adjustable to 24" on 4wd units. Hitch height may not exceed 30" and must be adjustable to 28" on 2wd units. The hooking point must have a minimum 3.750-inch inside diameter opening for the sled hook. The hooking point will be measured to the rear of the opening in the clevis/hook loop. Hooking point (i.e. where the hook drops) must be parallel to the ground. Final decision of legality of all hitches resides with the head tech official.
27. Secondary hitch required. Minimum of 3/8 inch steel located below primary hitch on the same vertical plane (meaning they should line up so you can see through both at the same time).
28. The tires must be unaltered, DOT street tires. Dual rear wheels are permitted. Max tire height 35 inches.
29. The use of a hand throttle is allowed. All throttles will have a dead man throttle that will automatically return to a closed position. Throttles will work in a forward to reverse motion, forward being open. Two springs will be required on the hand throttle and one spring on the fuel injection pump.
30. Turbocharger: The vehicle is limited to a single turbocharger; the inducer bore on the compressor housing: 3.0" smooth bore turbo, must be a smooth faced intake housing, limited to a 3.0" inlet, (no map ring) with all air entering through the 3.0" intake opening. Intake wheel must protrude 1/8th inch inside of opening. No MWE chargers, regardless of sizing, will be allowed in this class.

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## **7800lb Hot Outlaw Diesel**

1. 7800lbs Maximum weight.
2. Hidden weight is permitted. Hanging weights may not extend more than 60 inches from the centerline of the front axle. No free weights in the cab, no weights on driver's side of the cab. All weights MUST be secured. Any loss of weights will result in disqualification.
3. Batteries must be securely mounted. They may not be located in the driver compartment or forward of weight bar. If not in stock OEM location must be in an approved battery box and have a master disconnect switch that is easily accessible and clearly marked.
4. Front brakes are mandatory and must be in operating condition.
5. OEM restraint system is mandatory and must be worn. Full sfi approved fire suit, closed toed shoes and closed face helmet is mandatory.
6. All trucks must have a minimum of six-inch wide u joint shields around the rear u joint constructed of at least 1/4-inch steel or 3/8-inch aluminum that will safely contain the u joint and the end of the rear shaft. Drive shaft loops are mandatory.
7. The engine block must have been available as a factory option on a one-ton or smaller pickup.
8. All vehicles must be equipped to direct exhaust upward including stock exhaust systems. Hood stacks are permitted. Two 3/8 inch diameter bolts must be installed through the exhaust pipe in a cross pattern within one inch of each other as close to the turbo as is practical if competing at more than 2 events per year.
9. A fire extinguisher system is permitted. It must be securely mounted.
10. All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.
11. All trucks are required to have kill switch located on the back of the truck, near the hooking point. Trucks with an electric injection fuel pump must have an electric shut off or disconnect for the injection pump on the back of the truck. Trucks with manual injection pumps must have an air guillotine of the spring loaded type, no butterfly type, to kill the air intake to the engine. Trucks MUST have a functioning kill switch, must prove operational at tech inspection



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12. Hitch reinforcements are permitted. Any hitch attachments/bracing must be from frame down not from axle up. Reinforcements must not extend forward of the centerline of the rear axle. Hook point may be no closer than 44" inches of centerline of rear axle. Trick hitches are prohibited. The hitch must be stationary in all directions. Bumpers may be notched or removed. The hitch height from the ground may not exceed 26" and must be adjustable to 24" on 4wd units. Hitch height may not exceed 30" and must be adjustable to 28" on 2wd units. The hooking point must have a minimum 3.750-inch inside diameter opening for the sled hook. The hooking point will be measured to the rear of the opening in the clevis/hook loop. Hooking point (i.e. where the hook drops) must be parallel to the ground. Final decision of legality of all hitches resides with the head tech official.
13. A single aftermarket seat is permitted but must be equipped with a safety restraint system.
14. The vehicle must retain the full, original OEM steering gear. Additional stabilizers are permitted. May use hydraulic steering but must be able to have control in case of hydraulic failure.
15. The tires must be DOT street tires. Cut tires are prohibited.
16. Solid suspension is permitted.
17. The use of a hand throttle is allowed. All throttles will have a dead man throttle that will automatically return to a closed position. Throttles will work in a forward to reverse motion, forward being open. Two springs will be required on the hand throttle and one spring on the fuel injection pump.

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## **2019 GAS CLASSES**

### **Street Gas: \*6800lbs. Maximum weight.**

1. Added weight must be secured within the body of the truck. No weights allowed in the cab. No front weights or weight boxes allowed. Competitor must be ready and able to show any added weight as being secure to tech officials.
2. The body must be the OEM body. The body must retain full sheet metal. Aftermarket hoods are permitted. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and OEM floor pan is mandatory. **A factory option pickup bed or commercial style aftermarket bed must be installed.**
3. A complete interior, including dashboard, door panels, headliner, etc., is mandatory. Two matching front seats are mandatory. Aftermarket seats are permitted; they must be fully upholstered. All factory controls (lights, signals, horn, windows, wipers, etc.) must be retained and be operative. Complete headlight and taillight assemblies (all) are mandatory and must be operative. Complete OEM windshield and windows are mandatory. Windows must be operative per factory specifications; that is, they must open and close via OEM electrical or mechanical means.
4. Four-wheel hydraulic functional brakes are mandatory.
5. The OEM chassis is mandatory. The engine must be in the OEM location for the body used. The vehicle must retain the full OEM chassis. The vehicle must retain the original factory wheelbase and track width. Radiators must be in the stock location and be of at least stock size.
6. The OEM restraint system is mandatory and must be worn.
7. The engine block must be factory along with heads. Exhaust must exit rearward of drivers compartment and thru mufflers.
8. The fuel must be pump gasoline only. No injectables, all components must be removed from the truck. Truck utilizing factory turbo or supercharger **MUST** keep them in OEM, unaltered form.
9. An OEM-style suspension is mandatory. Traction bars and devices are permitted. All OEM suspension mounting points must be retained and used. Sway bars, and camber kits are permitted. Rear suspension stops must be adjustable and allow minimum one inch of

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compression. Airbag spring assistance is permitted; airbag compressors must be disconnected. No on-board compressors allowed. Suspension may not be limited in any way using chains, cables, or straps.

10. Non-OEM rear-end housings are prohibited. All driveline components must have been an option on a one-ton or smaller pick up. Non-OEM transfer cases are prohibited. The transfer case must have been an option on a one-ton or smaller pickup truck. Non-OEM transmissions are prohibited. Aftermarket torque converters, valve bodies and internal components are permitted. Transmission brakes are prohibited. A functional neutral safety switch is mandatory. All manual transmissions must be clutch assisted. Sequential shifters are prohibited.
11. The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non-OEM power assist methods are prohibited.
12. The hitch must be a receiver-style hitch; reinforcements are permitted. Reinforcements must not extend forward of the centerline of the rear axle or to the axle housing itself. Trick hitches are prohibited. **The hooking point must be the rear-most point on the vehicle and must be rearward of the stock location of the tailgate.** The hitch must be horizontal to the ground and stationary in all directions. Rear bumpers may be notched or removed. The hitch's height from the ground **may not exceed 26 inches on 4wd units.** **The hooking point must have a minimum 3.750-inch inside diameter opening** for the sled hook. The hooking point will be measured to the center of the clevis loop.
13. The tires must be DOT street tires. Dual wheels will be permitted on factory equipped trucks only.  
A working, up-to-date, fire extinguisher in cab is mandatory.

### **Enhanced Gas: \*6500lbs. Maximum weight.**

1. No hanging weights. No loose objects in the vehicle, all objects must be securely fastened. No weights allowed in the cab. Hidden weight permitted.
2. One four-barrel carburetor maximum. Aluminum intake allowed. No rams or cross rams allowed. No turbochargers, superchargers, fuel injection, unless stock for make and

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- model. No dry sump systems. The engine block must be factory along with heads. Block does not need to be make specific.
3. Factory Style engine blocks only. No aftermarket blocks. Aluminum heads permitted. No dominator carburetors.
  4. Blow-proof bell housing & blow-proof blanket are required.
  5. All trucks must have at least 6 in. wide u-joint shields around the rear u-joints constructed of at least 3/16 in. steel or 3/8 in. aluminum that will safely contain the u-joint and the ends of each shaft. In addition, there will be at least one shaft loop in the middle of the drive shaft. All shields must be securely mounted to the vehicle. Any front shaft u-joint that is visible from the side of the truck must be shielded to contain the u-joint and the end of the shaft.
  6. No inspection required but must meet DOT safety rules. Four-wheel brakes required. Lights, windows, etc. must be present and in working condition.
  7. An OEM chassis with complete OEM floor pan & firewall is mandatory. Wheel tubs, back-half conversions, tube chassis, etc., are prohibited. The engine and radiator must be in the OEM location for the body used. The vehicle must retain the factory frame and wheelbase length. Driveline components must have been available from factory in one (1) ton truck or less.
  8. All body panels must meet OEM specifications. All window glass must be in place.
  9. Rear suspension may be blocked with removable blocks. Truck must have working suspension 1" travel. Air bags allowed. No on-board compressors. The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non-OEM power assist methods are prohibited.
  10. The hitch must be a receiver-style hitch; reinforcements are permitted. Reinforcements must not extend forward of the centerline of the rear axle or to the axle housing itself. Draw bar and trick hitches are prohibited. **The hooking point must be the rear-most point on the vehicle and must be rearward of the stock location of the tailgate.** The hitch must be horizontal to the ground and stationary in all directions. Rear bumpers may be notched or removed. The hitch's height from the ground **may not exceed 26 inches on 4wd units.** The **hooking point must have a minimum 3.750-inch inside diameter opening** for the sled hook. The hooking point will be measured to the center of the clevis loop.
  11. Gasoline only. All forms of nitro, alcohol and propane are illegal as a fuel or additive.

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12. Tires must be street legal tires with a DOT number on the sidewall. Tread pattern may not be altered in any way. Dual rear tires may not be used in competition. Maximum tire size 35in. high by 12.50 in. wide, actual measurement. Wheels not to exceed tire width.
13. Drivers must wear a DOT approved helmet. Helmet must be fastened.
14. Blow Proof harmonic balancer or shield covering 360 degrees highly recommended.
15. Hub coverings highly recommended. Covers don't have to be solid but must contain parts should breakage occur.

### **ProStock Gas - 6400 lb. Max Weight.**

1. Hanging weights allowed. No loose objects in the vehicle, all objects must be securely fastened. Weights cannot be more than 60" from center of front axle. Weights in the bed must be secured. No weights are allowed in the cab.
2. One four-barrel carburetor maximum. Aluminum intake allowed. No rams or cross rams allowed. No turbochargers, superchargers, fuel injection, aluminum blocks allowed, unless stock for make and model. Nothing but air cleaner and headers can be sticking out of hood. Dominator style carburetors allowed. Aluminum heads are allowed.
3. Headers and open exhaust permitted, Header may extend upward through hood.
4. Blow-proof bell housing & blow-proof blanket or shield, are required.
5. All trucks must have at least 6 in. wide u-joint shields around the rear u-joints constructed of at least 3/16 in. steel or 3/8 in. aluminum that will safely contain the u-joint and the ends of each shaft. In addition, there will be at least one shaft loop in the middle of the drive shaft. All shields must be securely mounted to the vehicle. Any front shaft u-joint that is visible from the side of the truck must be shielded to contain the u-joint and the end of the shaft.
6. No inspection or tags required. Must have working front brakes. Rear brakes not required.
7. An OEM chassis with complete OEM floor pan & firewall is mandatory. The engine and radiator must be in the OEM location for the body used. The vehicle must retain the factory frame and wheelbase length. Driveline components must have been available from factory in one-ton truck or less. Back-half conversions allowed.
8. No traction control allowed. All components must be removed from the truck.
9. Steel cab required, must meet OEM specifications. Beds must have full floor or tarp. All window glass must be in place.
10. Hitch height 26" at point of hook before, during and after pull. Hitch must be rigid in all directions & mounted solid. Minimum hitch opening must be 3.75" inside opening.

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Pulling point can be no more than 1.5” from back edge of drawbar. No clevis, chains, or cables permitted in hitching device. From point of hook to centerline of rear axle shall be no less than 25% of truck wheelbase & shall not slope any greater than 25 degrees to hitch point.

11. Gasoline only. All forms of nitro, alcohol and propane are illegal as a fuel or additive.
12. Tires must be street legal tires with a DOT number on the sidewall. Tread pattern may not be altered by cutting. Dual rear tires may not be used in competition. Maximum tire size 36in. high by 16.50 in. wide by actual measurement. Wheels not to exceed tire width.
13. Sled operated kill switch required.
14. Blow Proof harmonic balancer or shield covering 360 degrees highly recommended.
15. Drivers must wear a DOT approved helmet. Helmet must be fastened. Opened body vehicle drivers must also wear eye protection. SFI approved 3.2A/5 minimum rated, fire jacket, fire pants and closed toed shoes mandatory.
16. All trucks must have all hubs covered. Covers don't have to be solid but must contain parts should breakage occur.

### **6300lb SuperStock Gas 4X4**

1. Hanging weights allowed. No loose objects in the vehicle, all objects must be securely fastened. Weights cannot be more than 60” from center of front axle. Weights in the bed must be secured. No weights are allowed in the cab.
2. One four-barrel carburetor or 2-two barrel carburetor maximum. Aluminum intake allowed. No rams or cross rams allowed. No turbochargers, superchargers, fuel injection, aluminum blocks allowed, unless stock for make and model. Nothing but air cleaner and headers can be sticking out of hood. Dominator style carburetors allowed. Aluminum heads are allowed.
3. 500 cubic inch limit. Cast iron blocks only. Engine must be in OEM location.
4. Oxygenated fuel allowed. All injectables prohibited (i.e. propane, nitrous, methanol, etc.)
5. Headers and open exhaust permitted, Header may extend upward through hood.
6. Blow-proof bell housing & blow-proof blanket or shield, are required.
7. OEM frame mandatory, reinforcements allowed. No tube chassis. Must have complete firewall. The engine and radiator must be in the OEM location for the body used. The vehicle must retain the factory frame and wheelbase length.

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8. Driveline components must have been available from factory in one-ton truck or less. Back-half conversions allowed.
9. No traction control allowed. All components must be remove from the truck.
10. All trucks must have at least 6 in. wide u-joint shields around the rear u-joints constructed of at least 3/16 in. steel or 3/8 in. aluminum that will safely contain the u-joint and the ends of each shaft. In addition, there will be at least one shaft loop in the middle of the drive shaft. All shields must be securely mounted to the vehicle. Any front shaft u-joint that is visible from the side of the truck must be shielded to contain the u-joint and the end of the shaft.
11. No inspection or tags required. Must have working front brakes. Rear brakes not required.
12. Beds must have full floor or tarp or covering to prevent any debris direct line to the sled. All window glass must be in place. Lexan is acceptable, no plexiglass allowed.
13. Hitch height 26" at point of hook before, during and after pull. Hitch must be rigid in all directions & mounted solid. Minimum hitch opening must be 3.75" inside opening. Pulling point can be no more than 1.5" from back edge of drawbar. No clevis, chains, or cables permitted in hitching device. From point of hook to centerline of rear axle shall be no less than 25% of truck wheelbase & shall not slope any greater than 25 degrees to hitch point.
14. Gasoline only. All forms of nitro, alcohol and propane are illegal as a fuel or additive.
15. Tires may be cut/bar tires. 31" maximum height. DOT tires allowed, not to exceed 36" X 15.50" according to sidewall.