

KOS'19 **KING of the STREET** **CHALLENGE 2019** *Spectator* *Classes*

Diesel Classes:

UNLIMITED STREET DIESEL CLASS:

1. 8500lbs Maximum weight.
2. All trucks/vehicles must be registered, tagged and insured. All drivers must have a valid state driver's license and wear helmet and safety restraint (seatbelt, harness etc.) during competition (meaning while truck is hooked to the sled).
3. The body must be the OEM truck body, including the full bed floor. No homemade flatbeds permitted, must be commercially available, unaltered, manufactured flatbed. 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. Full interior from factory is a must. Full body panels required. If any aftermarket panels are installed, they must be commercially offered.
4. No front hanging weight. Hidden weight is allowed and must be secured. Weights may be hung in the bed, must be secured. No weights allowed in the cab.
5. Must have OEM factory driveline made for a 1 (one) ton pickup or smaller.
6. 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. Any trucks with turbo s300 or larger and/or utilizing more than a single charger must wear minimum of single layer fire jacket.
7. Hood stacks & hand throttles permitted. No turbo limitations, big singles, compounds, twins, triples, etc. allowed.
8. NO INJECTABLES ALLOWED
9. A secured & up to date fire extinguisher in cab is required.
10. 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.
11. DOT tires mandatory, no cuts, no bar tires, no tire alterations allowed. No duals allowed. Tires must size 35" x 12.50" or smaller.

**** ALL TRUCKS entering this class will be subject to a street drive. Trucks must be ready to drive upon finishing of the driver's meeting. No stopping for fuel, breakage, over heating, etc. Have your trucks fueled and ready to leave with the escorts. Any truck not making the drive with the group for any reason will be disqualified. Any stopping, breakage, unable to finish the drive will result in disqualification. ****

Modified Diesel Rules:

- 1) 8000lbs Maximum weight.
- 2) All drivers must have a valid state driver's license and wear helmet & safety restraints during competition (hooked to the sled).
- 3) The body must be the OEM truck body, including bed floor. No homemade flatbeds permitted, must be commercially available, unaltered, manufactured flatbed. 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. If any aftermarket panels are installed, they must be commercially offered. Fiberglass panels are not allowed except for the hood. The complete OEM firewall and complete OEM floor pan is mandatory.
- 4) 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. Any weight hitting the ground during pull equals disqualification.
- 5) Must have factory OEM driveline offered in a 1 (one) ton truck or smaller.
- 6) ***If running nitrous, minimum of full multi-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 and/or notification to tech official will result in IMMEDIATE disqualification in any/all classes. No refund, no payout, no exceptions.***
- 7) Can have Reese style or Receiver style hitch. No draw bars allowed.
 - a. Reese style hitch: Hook point must be no closer than 44" of centerline of rear axle, hitch height maximum of 24", 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.
 - b. 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 24". 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.
- 8) DOT tires mandatory, no cuts allowed.
- 9) Batteries must be securely mounted anywhere, but if in cab must be covered completely.
- 10) Front wheel hydraulic brakes are mandatory and must be functional.
- 11) Any U-joint that is visible from the side of the truck must be shielded to contain the U-joint and end of the shaft. Recommended to be at least six inch wide u-joint shields around the rear u-joint constructed of at least ¼ inch steel or 3/8 inch aluminum that will safely contain the u-joint and the end of the rear shaft. All shields must be securely mounted to the vehicle. All trucks must have drive shaft loops.
- 12) 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.
- 13) **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) 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 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.

- 14) 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. Hood stacks & hand throttles permitted. No turbo limitations, big singles, compounds, twins, triples, etc. allowed.
- 15) Helmets must be worn during competition. Single layer fire jacket mandatory, unless using nitrous or injectables full fire suit mandatory (see rule 6). Closed toed shoes mandatory. Long pants mandatory.

Hot 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
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.

Gas Classes:

Street Gas:

- 1) 6800 lbs Maximum weight
- 2) All trucks/vehicles must be registered, tagged and insured.
- 3) Added weight must be secured within the body of the truck. No weights allowed in the cab. No front weights or weight boxes allowed.
- 4) A complete interior is 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.
- 6) The fuel must be pump gasoline only. No combustion accelerators permitted. All components must be removed.
- 7) OEM driveline mandatory.
- 8) The hitch must be a reese-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 20" inches. 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.
- 9) DOT tires only. No duals. Max size 35x12.50
- 10) Helmets and OEM safety restraint system must be worn while on the track.
- 11) Street drive mandatory. Once your truck has been teched, you will need to drive on the street to qualify for this class. All trucks must be street-able. Not completing the street drive will disqualify you from this class.

Enhanced Gas:

- 1) 6500lb Maximum weight.
- 2) All drivers must wear safety restraint system, sfi/snell approved helmet, long pants and closed toed shoes.
- 3) Added weight must be secured within the body of the truck. No weights allowed in the cab. No front weights or weight boxes allowed.
- 4) 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. OEM full steel body is mandatory, if bed floor is removed, bed must be covered. Fiberglass hoods permitted.
- 5) Drive shaft loops and U-joint shields are mandatory.
- 6) Engine blocks must be/have been available on a 1 (one) ton truck or smaller.
- 7) Exhaust must exit rearward of the cab.
- 8) Hitch may be Reese-style or receiver style. No drawbars or trick type hitches. Hitch height 24" to hook point. Minimum hitch opening must be 3.75" x 3" inside opening.
- 9) One ton driveline max. No open rears, no open driveline.
- 10) Trucks may block solid.
- 11) DOT tires only, no alterations, bar tires, cuts, etc. Must have DOT number on sidewall.

- 12) All trucks required to have operational kill switch, neutral safety light.
- 13) Trucks must retain original factory wheelbase track width.

ProStock Gas:

- 1) 6300 lbs maximum weight
- 2) Hanging weights or bumper may not extend more than 60 in. from the center of front axle. No loose objects in the vehicle, all objects must be securely fastened
- 3) Blow-proof bell housing & blow-proof blanket or shield, are required.
- 4) 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. Drive shaft loops are mandatory.
- 5) Must have working front brakes.
- 6) An OEM chassis with complete OEM floor pan & firewall is mandatory. The vehicle must retain the factory frame and wheelbase length. Back-half conversions allowed. Steel cab required, must meet OEM specifications. Beds must have full floor or tarp. All window glass must be in place.
- 7) Hitch may be receiver or drawbar style. 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.
- 8) Tires must be street legal tires with a DOT number on the sidewall. Tread pattern may not be altered by cutting. Wheels not to exceed tire width.
- 9) Drivers must wear sfi or snell approved closed face helmet. Opened body vehicle drivers must also wear eye protection. Fire jacket, fire pants and closed toed shoes mandatory.
- 10) Blow Proof harmonic balancer or shield covering 360 degrees highly recommended.
- 11) Working kill switch is mandatory.
- 12) All trucks must have all hubs covered. Covers don't have to be solid but must contain parts should breakage occur.

Big Hoss Class

- Naturally aspirated gas or alcohol (with cast iron block & stock spacing): 7600 pounds and 28" hitch height
- Naturally aspirated gas or alcohol (with aluminum block): 7600 pounds and 27" hitch height
- Naturally Aspirated GAS with Nitrous Oxide System: 7300 pounds and 26" hitch height (Bore spacing alterations permitted)

- **Naturally Aspirated GAS with Nitrous Oxide System running cast iron block: 7600 pounds and 26” hitch height.**
- **Any Single Turbo Diesel/Gas Truck: 7600 pounds and 26” hitch height Running with Cut Bar Tires**
- **Any Single Turbo Diesel/Gas Truck: 7800 pounds and 26” hitch height running with DOT Tires**
- **Any Multi Turbo Diesel/Gas Truck: 7500 pounds and 25” hitch height with DOT or Bar Tires.**
- **Super Stock Diesel: 7500 pounds and 25” hitch height**
- **Super Charged/Pro Charger gas or alcohol (575 ci max) weigh 7300 pounds and 26” hitch height**

Engines:

- **GASOLINE or ALCOHOL ENGINES** may utilize a single super charger or a single turbo charger. All NTPA necessary safety equipment and restraints on the super charger must be followed.
- Maximum supercharger size: 14-71, 19-inch rotor case length, 11.25-inch rotor case width rotor case width to be measured internally
- Note: For that utilizing 8-71 blower the following dimensions: 16-inch rotor case length and 11.25-inch rotor case width to be measured internally.
- Screw type blowers are not permitted.
- Variable multi-speed supercharger devices prohibited.
- Pro Chargers are allowed as well maxim size of F-3R-130
- Fuel injection is permitted. Aluminum blocks and aluminum heads are permitted. Bore spacing may be altered. A single turbo charger is also permitted in this configuration.
- **DIESEL ENGINES** are restricted to 6 cylinder and 8 cylinder compression ignition engines. Diesel engine must have been available in a one ton or less truck from the factory. Sigma fuel pumps are permitted. Water injection is permitted. The fuel must be pump #1/#2 diesel only. Soy or Bio-diesel fuel is permitted. A diesel engine truck running without a muffler must have 2 (two) cross bolts installed in their downpipe.

Weights: Added weights are permitted. Hanging weights may not extend more than 60 inches from the centerline of the front axle. Any loss of ballast while hooked to the sled is cause for disqualification.

Hitches: The hitch must be constructed of solid material that is properly attached and braced. The hooking point must be at least. The length of the hitch measured from the center of the rear axle to the hitch point may be no shorter than 27% of the actual wheelbase of the truck. The hitch must be horizontal to the ground and stationary in all directions. 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. The area where the hook point is at must be free and clear of any obstructions. No lever, pivot, axis or other types of ‘trick’ hitches are prohibited. No vertical hitches, all hitches must be 33 degrees or less parallel to the ground. A second hitch is not required in this class. Drivers of trucks with a second hitch must assure that the second hitch is ‘taped off’ – this is the driver’s responsibility.

Kill Switch: All trucks must be equipped with an operational kill switch

No tire limitations.

All inline turbocharged engines must have one cable completely surrounding the engine block and head. The cable will be 3/8 inch diameter. Cable must have a minimum of two clamps at all splices. Cable will have 4" to 6" inches of slack.

Master Cutoff – Diesel Engines: A sled- and driver- operated spring loaded emergency air shut off is mandatory. The cable must terminate into a two inch diameter steel ring.

Fuel cutoff – Diesel Engines: All trucks must be equipped with a driver operated fuel shutoff capable of blocking fuel flow to the injection pump. A three-way dump valve is required.

Driveshaft Loops & Shields: All trucks must have at least six inch wide u-joint shields around the rear u-joints constructed of at least 1/4 inch steel or 3/8 inch 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.

Flywheel Shield: 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 blanket that completely covers the bell housing may be used in place of the shield; it must be attached to the block and extend rearward to the transmission with a minimum six inch overlap where it is fastened.

Transmission, Manual: After market transmissions and transfer cases are permitted. A clutch meeting minimum SFI Spec 1.1 or 1.2 is mandatory on all vehicles that are collecting points. All transmissions must be clutch assisted. Sequential shifters are prohibited.

Transmission, Automatic: Aftermarket transmissions are permitted. 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, appropriately labeled as meeting SFI Spec 4.1 and extending from the rear of the block to front of tail housing with a minimum six inch overlap where it is fastened, is permitted. 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.

Injectables: are allowed. Full multi-layered fire suit, snell or sfi approved helmet (details below) is mandatory.

Batteries: Batteries must be securely mounted; cannot be located in the driver compartment.

Driveline: Aftermarket transmissions and transfer cases are permitted. Axle shields are required and will be .060" thickness in steel or aluminum. Shield shall not be mounted to axle ends or hub bolts. An access hole may be left open to allow locking in the hubs.

Wheelbase: The minimum allowed wheelbase is 90 inches; the maximum allowed is 180 inches. The maximum wheelbase variation from left to right is one inch; the measurement will be made using an

X pattern (LF-RR and RF-LR). The maximum tread width is 102 inches. Extending rear wheels beyond the OEM position is permitted.

Suspension: No suspension is required. A solid suspension is permitted. Lift Kits are acceptable.

Body & Frame: A tube frame is permitted. A Fiberglass body with working doors and complete firewall that seals the driver's compartment is acceptable.

Floor: Each vehicle in competition must be equipped with an OEM floor pan or a minimum 0.024 inch steel floor pan that extends the full length and width of the driver seating area. Non-OEM floor pans must have cross members (minimum two inch by two inch, 0.083 inch wall thickness square tubing) installed between the frame rails for proper seat and driver restraint system installation and support. All openings must be sealed with metal-excluding grommets. The use of fiber glass and/or magnesium is prohibited. The vehicle must be equipped with one seat for the driver; it must be properly installed.

Firewall: Each vehicle must be equipped with an OEM or minimum 0.024 inch steel firewall, OR ¼" Lexan from side to side of the body and from the top of the engine compartments upper seal (hood, cowl, or deck) to the bottom of the floor and/or belly pan. The firewall must provide a bulkhead between the engine and/or fuel tank and driver compartment. All openings must be sealed with metal-excluding grommets. The use of magnesium is prohibited.

Helmet: Driver must wear a helmet meeting Snell 85, 90, 95, 2000, K98 or SFI Spec 31.1

Firesuit: Fire suits are required at a minimum of SFI 3.2. In flip top bodied vehicles without a firewall or working doors, the driver will be required to wear an SFI 3.2A-5 approved suit.

Driver Restraint System: The OEM restraint system is mandatory and must be worn. A five point safety harness is highly recommended in the class.