

8000 2.5 Diesel Truck – 4x4

This Diesel class is designed for pickup trucks with a wide variety of performance upgrades. The truck must be 4 wheel drive.

Weight : 8000 lb Maximum, with driver

Ballast: Hanging front weights are permitted. If used, ballast must be securely fastened. Weight or weight bracket must not extend more than 60 inches from the center line of the axle. Weight boxes are prohibited. Final decisions rest with the technical department. Weights and brackets must be removable by hand. **Batteries:** The Batteries must be securely mounted. They may not be located in the driver compartment or forward of the radiator core support. **Body:** The body must be the OEM truck body including the full bed floor. The body must retain full sheet metal. The complete OEM firewall and complete OEM floor pan is mandatory. A factory installed pickup bed or commercial style aftermarket bed must be installed. No flat beds are permitted. **Brakes:** Four wheel hydraulic functional brakes are mandatory. Fully functional factory 4-wheel **Chassis:** The OEM chassis is mandatory. The engine must be in the OEM location. The vehicle must retain the full OEM chassis. Wheel tubs, back half conversions, tube chassis, etc, are prohibited. **Cooling System:** Radiators must be in stock location and be of at least stock size **Driveline:** An OEM transmission and transfer case are mandatory. They must have been an option on a one ton or smaller pickup. **Driver Restraint System:** The OEM restraint system or **SFI 5 point harness** is mandatory and must be worn. **Driveshaft Loops:** All trucks must have at least six (6) inch wide u-joint shields around all u-joints on rear drive shaft constructed of at least ¼ steel or 3/8 aluminum that will safely contain the u-joints and the ends of drive shafts. Any u-joint on the front axle that can be seen from front or side of truck must be shielded the same as all other u-joints. All shields must be securely mounted to the vehicle. A new puller may be granted a one time waiver. **Engine:** The engine is limited to a stock appearing, OEM compression engine, available from the factory in a one ton or smaller truck. Cubic Inch limit of 444CI. Block must circulate coolant freely. No hard filled blocks. Water pumps may be factory or electric powered. All factory belt driven accessories, excluding the air conditioning compressor, must be retained and powered via the crankshaft by a standard serpentine “V” belt. Electric cooling fans are permitted. No individual runner intake manifolds. (Example: ZZ-customs). Belt driven alternator. No deck plates. **Exhaust:** All vehicles must be equipped to direct exhaust upward. The exhaust must exit rearward of the driver’s compartment. Stacks exiting through the fender well and hood are prohibited. 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 possible. This will be teched. Bolt heads welded to the pipe or sheet metal screws to mimic this will be grounds for disqualification. **Fire Extinguisher System:** A fire extinguisher system is permitted, it must be securely mounted All vehicles must have at least a 2 ½ lb extinguisher with working gauge mounted within drivers reach. **Fuel:** The fuel must be pump #1, #2 diesel or Soy/Biodiesel. Fuel must be commercially available. A fuel cell may be used in place of the factory fuel tank, but must be mounted in factory location or securely mounted in bed. **Fuel Injection Pump:** The fuel injection pump is limited to cylinder number specific (I.e. 6 cylinder pump on a 6 cylinder motor). The use of multiple high pressure common rail fuel pumps or HPOPs are permitted. P pumps that are allowed are the p3000 and the p7100. Ag governors are allowed. No Sigma or 12 cylinder pumps allowed. **Harmonic Balancer:** All engines turning more than 4500 RPM must be equipped with a harmonic balancer or dampener meeting SFI Spec 18.1. **Hitch:** The hitch must be a REECE receiver- style hitch. Reinforcements are permitted. Reinforcements must not extend forward of the center line of the rear axle and must remain inside the

frame rails. 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. Bumper may be notched or removed. The hitch's height from the ground may not exceed 24 inches. The hooking point must have a minimum of 3 inch by 3 ¼ inch inside opening for the sled hook. The hooking point must be a minimum of 44 inches from the center of the rear axle, to the end of the hole where the hook touches metal to be pulled from, this is the hooking point.

Intercoolers: Factory style or aftermarket air to air replacement only in stock location. ****Water to air coolers are prohibited.**** Any means of cooling the air before the engine, except the air to air cooler is prohibited. ****NO USE OF ICE OR WATER****

Interior: A complete interior, including dashboard and door panels is mandatory. Aftermarket seats are permitted, they must be fully upholstered. The use of hand –throttles is **permitted**. After market gauges are allowed.

Kill Switches: All trucks are required to have kill switch located on the back of the truck, located near the hooking point. On trucks with an electric injection fuel pumps it must have an electric shut off or disconnect for the injection pump on the back of the truck For trucks with manual injection pumps they must have an air guillotine of the spring loaded type, no butterfly type to kill the air intake to the engine. It is recommended to have an air shut off on all trucks. Kill switch failure will result in disqualification.

Nitrous Oxide/Propane: Nitrous Oxide is prohibited. No other oxygen extenders are allowed. Propane is prohibited. All system components must be removed from the truck. No pressurized bottles.

Rear End: Non OEM rear-end housings are prohibited. The rear end housings must have been for a one ton or smaller pickup pick up. Rear axle bolts must be covered with a cap or shield.

Safety Equipment: All drivers must wear a helmet, and a SFI 3.2a approved fire jacket and long pants, not necessarily fire suit pants. More specifics posted in general rules.

Steering: The vehicle must retain the full, original OEM, factory steering gear. The vehicle must retain the original OEM power assistance, if it was so equipped. Additional stabilizers are permitted. Non OEM power assist methods are prohibited.

Street Equipment: Complete headlight and taillights assemblies are mandatory and must be operative, except the right front headlight may be removed for air inlet to engine. Complete OEM windshield and all other windows are mandatory. Driver window must be able to operate per factory specifications. They must open and close via electrical or mechanical means.

Suspension - Front: The factory suspension configuration must be retained. Modifications to the front suspension that would alter the original location (I.e. moving it forward or backward) is not permitted. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted. Air shocks are prohibited.

Suspension - Rear: An OEM style suspension is mandatory. Traction bars and devices are permitted, they must be bolt on only, welds are permitted for attachment to the frame or axle housing. Traction bars if installed must have a chain or cable or some type of safety device mounted one (1) foot from the front support to catch the bar in case of failure. Control arms may be strengthened or replaced, providing all original mounting points are retained and used. Sway bars, lower tie bars, limit straps, and camber kits are permitted. The rear suspension can be solid with a removable block. Air bag spring assist and air shocks are prohibited.

Tires: The tires must be DOT street tires. Cut tires are prohibited. The vehicle must retain the original factory wheelbase and track width. 35 inch max x 12.50. No chains or studs. Single tires. **Duals okay.**

Transfer Case: Non - OEM transfer cases are prohibited. It must have been an option on a one ton or smaller pick up truck.

Transmission - Automatic: Non - OEM transmissions are prohibited. The transmission must have been an option for a one ton or smaller truck. 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 automatic transmissions must be equipped with a transmission shield meeting SFI Spec 4.1 and must be labeled accordingly. A blanket type shield must be used and appropriately labeled as meeting SFI Spec

4.1 and it must extend from the rear of the engine block to the rear of the tail housing with a minimum of six (6) inch overlap where it is fastened. All vehicles using an automatic transmission must be equipped with a flex plate meeting SFI Spec 29.1.

Transmission - Manual: Non - OEM transmissions are prohibited. The transmission must have been an option on a one ton or smaller truck. Aftermarket internal components are permitted. A clutch meeting minimum SFI Spec 1.1 or 2.1 is mandatory on all engines. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All transmissions 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 . 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. **Turbocharger:** S-4, GT 42, HX 50 and turbo of this type is the largest turbo allowed. T-4 mounting flange is the largest allowed. No clipped wheels or step down covers. Billet compressor wheels are allowed. A single .200 inch MWE groove maximum allowed. Inducer bore must be non-removable. All air must go through the 2.5 inducer bore and MWE groove. The wheel must protrude into the 2.5 bore 1/8 inch. Turbo checked with a 2.550 plug. 6.4 Powerstrokes will be permitted to run modified turbos, as long as the atmosphere turbo does not exceed the OEM straight bore dimension. (2.59") No TAPERED COVERS will be permitted.

Water Injection: Water injection is prohibited. All system components must be removed from truck. **Wheelbase:** The vehicle must retain the original factory wheel base and track width. Cab and chassis trucks may not exceed 172 inch center to center of axles. Front dual-wheel spacers may be used only with accompanying positive-offset dually style wheels.