

2017 DIESEL TRUCKS 2.5 CLASS RULES

The 2.5 class is designed for full-bodied diesel pickup trucks.

Weight:

8000 lbs. Weight is with driver.

Ballast:

Ballast is permitted. Hanging weights may not extend more than 60 inches from the centerline of the front axle. Weights in the bed must be secured. No weights are allowed in the cab.

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. Metal after-market hoods are permitted. The hood must be closed and securely latched while the vehicle is hooked to the sled.

Brakes:

Four-wheel hydraulic brakes are mandatory.

Chassis:

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.

Cooling System:

Radiators must be in the stock location and be of at least stock size. Electric water pumps allowed. Electric cooling fans allowed

Credentials:

All drivers must have a valid state driver's license.

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 is mandatory and must be worn. Helmet must be worn and strapped.

Driveshaft Loops:

All trucks must have at least 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. 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.

Electronics:

The use of on-the-fly tuning is prohibited while hooked to the sled. No laptop running on the passenger seat. No adjustments to any onboard computer program while hooked to sled.

Engine:

The engine block must have been available as a factory option on a one-ton or smaller pickup truck. Engine and Transmissions can be interchanged between brands (Dodge, Ford and GM) Blocks must circulate coolant freely. The use of concrete or other block fillers is prohibited. There will be no limit on RPM. Aftermarket intake manifolds are allowed. Limited to 444 cubic inches (7.3 liters) All other accessories must be power by factory belt drive.

Exhaust:

All vehicles must be equipped to direct exhaust upward. Two 3/8 inch diameter bolts must be placed through the exhaust pipe in a cross pattern within one inch of each other and must be within 12" of the exhaust housing.

Fire Extinguisher System:

A fire extinguisher system is permitted. It must be securely mounted.

Firewall:

The complete OEM firewall is mandatory.

Floor:

The complete OEM floor pan is mandatory.

Fuel:

The fuel must be pump #1 or #2 diesel only. Soy/Biodiesel fuel is permitted.

Fuel Injection Pump:

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. Power Stroke engines with a single factory turbo may utilize a second HPOP. Pumps from different years in the same engine model may be interchanged. P7100 Injection pump if equipped may utilize either a stock or agricultural governor.

Hitch:

Maximum hitch height allowed is 26" from the top of the hitch to level ground. (Hitch can be lower). Hitch must be a receiver type-towing hitch or a special constructed pulling hitch. No bumper hitches. Hitch must be rigid in all directions with a minimum of 3 inches wide by 3 ¾ inches long inside opening. No vertical hitch or openings. From point of hook to centerline of rear axle shall be no less than 30% of truck wheelbase and shall not slope any greater than 33 degrees to hitch point. No hitch supports or adjusters. If the hitch is fastened to the rear axle housing it shall be above the center line of the rear axle. The pivot pin of the drawbar can be no further forward than the center line of the rear axle.

Lighting

Vehicle must have at least one functioning reverse light viewable by hook attendant.

Nitrous Oxide:

Nitrous oxide is prohibited. No other oxygen extenders are allowed. All system components must be removed from the truck.

Propane:

Propane is prohibited. All system components must be removed from the truck.

Rear End:

Any Non OEM rear ends are prohibited. Must be of OEM equivalent to one ton or smaller pick up truck.

Suspension, Front:

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 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 and devices are permitted.

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 frame or axle housing. Control arms may be strengthened or replaced, provided all original mounting points are retained. Sway bars and limit straps are permitted. Rear suspensions may be bolted solid to eliminate travel.

Tires:

The tires must be DOT street tires. Cut tires are prohibited. **Trucks using dual rear wheels: Limited to Max. width of 8" tread per tire.**

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. Aftermarket torque converters, valve bodies and internal components are permitted. 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 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 and cover the converter area completely with a 1/6 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 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.

Transmission, Manual:

Non-OEM transmissions are prohibited. A clutch meeting minimum SFI Spec 1.1 or 1.2 is mandatory on all vehicles with engines running 4500 RPM or more. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All vehicles with engines running 4500 RPM or more and equipped with a manual transmission must have a flywheel shield labeled as meeting a SFI Spec 6.3 or greater. Applications for which and 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 block and extend rearward to the transmission with a minimum six inch overlap where it is fastened.

Turbocharger:

Driver is responsible for making compressor wheel and bore accessible to Tech Officials for measuring and inspection. Max. inducer bore 2.500" checked with a 2.550" plug. Bushing a larger bore down to 2.5 is prohibited. Inducer bore must be non-removable. Turbo Compressor bore must be a true-bore inlet. Stepped or tapered covers are prohibited. Clipping or trimming of the compressor wheel is prohibited. Turbo wheel must be no longer than 2.5" in front of and behind MWE. No MWE groove alterations allowed (Max. MWE Groove of 0.250"). Provisions allowing air to wheel other than via the bore and MWE groove are prohibited. Exhaust manifold/pedestal bolt pattern max. 3.5" x 2.75" (t-4 flange). Alteration of a turbo housing to fit smaller foot or base is prohibited. 6.4 liter Powerstroke engines may use the factory turbo configuration. 6.7 liter scorpion engines may use the factory turbo configuration.

Water Injection:

Water injection is prohibited. All system components must be removed from the truck.

Wheelbase:

The vehicle must retain the original unaltered factory wheelbase and track width. Rear dual wheels are allowed.