

CLASS F: 2.6 Turbo Diesel Class -- 8000#

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

- **See General Truck Pull Rules**
- **Ballast** is permitted. Front hanging weights are permitted. Front ballast and ballast mounting points must be securely mounted. It may not extend more than 60" from center line of the axle, and be high enough to clear scale and other pit obstacles. If it hits the scales it must be removed to complete. Ballast may be added to the bed of the truck. If used it must be securely fastened to the bed. Final decisions will be made by the pull committee.
- **Batteries** must be securely mounted and concealed. They may not be located in the driver's compartment.
- **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 and roll pans only are permitted. All fiberglass hoods must be shielded on the underneath side with sheet metal or aluminum skin a minimum of .060 thick. The hood must be closed and securely latched while the truck 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. No flat beds. Must have complete factory bed floor.
- Four wheel hydraulic functional **Brakes** are mandatory.
- OEM **Chassis** is mandatory. Front of engine block can be no further than 17" of the centerline of the front axle. Vehicle must retain the full OEM chassis. Wheel tubs, back half conversions, tube chassis, etc, are prohibited.
- **Cooling Systems** Radiators must be in stock location and be of at least stock size.
- **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 tone or smaller pickup.
- **Driver Safety Restraint System** OEM restraint system or SFI approved 5 point harness is mandatory and must be worn.
- **Driveshaft Loops:** All trucks must have at least (6") wide u-joint shields around all u-joints on rear drive shafts constructed of at least ¼ steel or ¾ aluminum that will safely contain the u-joints and the ends of drive shafts. Any u-joints 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.
- The **Engine** block must have been available as a factory option on a one ton or smaller truck. Cubic inch limit of 460 CI. Water pumps may be factory or electric powered. Electric cooling fans are permitted. No billet aluminum or billet steel heads. Head and radiator must circulate coolant.

- Head and radiator must have coolant circulate through it. NO DECK PLATE ENGINES PERMITTED.
- All vehicles must be equipped to direct **Exhaust** upward. The exhaust must exit rearward of the driver's compartment or through the hood. Stacks exiting through the fender well is prohibited. Two (2) $\frac{3}{8}$ " diameter bolts must be installed through exhaust pipe in a cross pattern within one (1)" 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 disqualifications.
- A **Fire Extinguisher System** is permitted. All vehicles must have at least a 2 ½ lb extinguisher with working gauge mounted within the driver's reach.
- 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.
- The **Fuel Injection Pump** is limited to cylinder number specific (ie 6 cylinder pump on a 6 cylinder motor). Dual high pressure common rail fuel pumps or HPOP's are permitted. Ag governors are allowed. No Sigma or 12 cylinder pumps allowed.
- All engines turning more that 4500 RPM must be equipped with a **Harmonic Balancer** or dampner meeting SFI Spec 18.1.
- The hooking point must be a minimum of 44" from the center of the rear axle. **Hitch** height maximum of 26" with a minimum of 3.75" x 3.0" opening. Hitching 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. Hitch must not exceed of maximum of 25 degree angle from pivot point to hook point.
- Factory style or aftermarket **Intercoolers** are allowed. Water to air intercoolers are allowed. Ice and water must be weighed at the time of crossing the scales.
- A complete **Interior** including dashboard, door panels, headliners, etc is mandatory. Aftermarket seats are permitted, they must be fully upholstered. The use of hand-throttles are permitted.
- 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** is prohibited. No other oxygen extenders are allowed. Propane is prohibited. All system components must be removed from the truck.

- Non OEM **Rear-End** housings are prohibited. The rear end housings must have been for a one ton or smaller pickup. 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.
- The vehicle must retain the full, original OEM factory **Steering Gear**. The vehicles 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 taillight assemblies are mandatory and must be operative, except the right front headlight may be removed for air inlet to engine. Complete OEM windshield 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.
- **(Front)** The factory **Suspension** configuration must be retained. Modification to the front suspension that would alter the original location 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.
- **(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 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.
- The **Tires** must be DOT street tires. Cut tires are prohibited.
- Non OEM **Transfer Case** are prohibited. It must have been an option on a one ton or smaller pickup truck.
- 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. Vehicles must not start in gear. All 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 (6) inches overlap where it is fastened .

- All vehicles using an **Automatic** transmission must be equipped with a flex plate meeting SFI spec 29.1
- 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 (6) inches overlap where it is fastened. All transmissions or clutch pedals will have a safety interlock switch so that vehicles will not start in gear.
- The vehicle is limited to a 2.6 inducer bore single **Turbocharger**. The compressor wheel must protrude into a 2.6" bore for $\frac{1}{8}$ ". The inlet will be measured using a 2.605" plug; the plug must not be able to enter the inducer bore. A stock map width enhancement (MWE) groove is allowed. No MWE groove will be allowed that has a width greater than .200". All provisions allowing air into the wheel other than via bore and the MWE groove are prohibited. The vehicle driver will be responsible for making compressor wheel accessible for tech personnel to measure bore and able to inspect compressor wheel.
- **Water injection** is prohibited. All system components must be removed from truck.
- The vehicle must retain the original factory **Wheelbase** and track width. Cab and chassis trucks may not exceed 172" center to center of axles. Front dual-wheel spacers may be used only with accompanying positive-offset dually style wheels.