

## **8500LB Improved Diesel Class Rules**

### **This class is designed for semi modified Diesel Pickups**

**Ballast:** No hanging of front weights is allowed. No weights in the cab. Must be placed in the box. Aftermarket front bumpers allowed, any homemade bumpers will be at the discretion of tech officials

**Chassis:** The OEM chassis is mandatory. 4-wheel factory working brakes. OEM Suspension. NO AIR BAGS OR AIR SHOCKS. Bolt in rear blocks allowed.

**Driveline:** An OEM Transmission, Transfer case, and drive axles only. Stock style suspension only. Lift kits allowed. Rear traction bars allowed, must have a loop on the bar.

**Tires:** The tires must be DOT street tires. Siping allowed. 35-inch maximum height. Factory dually trucks Only. No bolt on duals allowed. No Cutting grooving or grinding allowed.

**Body:** The body must be the OEM truck body including the full bed floor. Complete interior and all working components. Fiberglass hoods and roll pans are permitted. All Fiberglass hoods must be shielded on the underneath side with sheet metal or aluminum skin a minimum of .060 thick. A factory installed pickup bed or commercial style aftermarket bed must be installed.

**Batteries:** Batteries must be in stock location.

**Engine:** Blocks must circulate coolant freely. All factory belt driven accessories, must be retained and powered via the crankshaft by a standard serpentine or "V" belt.

**TURBOCHARGER:** Single Stock appearing Turbo of 68mm or less in stock location. I.E. (No 2nd gen swaps) Turbos must use the stock pedestal, no special adaptors or T-4 flanges. No S300 or S400 turbos, no smooth bore turbos. 6.4 Ford Powerstroke is the only vehicle allowed factory twin turbos. 7.3 Ford Powerstroke may use a T-4 flange in factory location.

**Harmonic Balancer:** All engines turning more than 4500 RPM must be equipped with a harmonic balancer or dampener meeting SFI Spec 18.1.

**Exhaust:** Vehicles are recommended to be equipped to direct exhaust upward. The exhaust must exit rearward of the driver's compartment. Two 3/8 diameter bolts must be installed through exhaust pipe in a cross pattern within 1 inch of each other, as close to the turbo as possible. No Hood Stacks.

Cooling System: Radiators must be in stock location and be of at least stock size. Electric cooling fans are permitted.

Fuel: Limited to a single factory High Pressure pump. The fuel must be pump #1, #2 diesel or Soy/Bio diesel. Fuel must be commercially available. Oem Fuel tank must be used. No propane, NOS, or water injection.

Hitch: The hitch must be a factory receiver-style hitch. 3.75 hitch hole must be exposed at rear of vehicle. Final decision of legality of all hitches resides with the head tech official. Minimum of 44 inches from center of rear axle back. Maximum 26-inch hitch height.

Intercoolers: Only air to air intercoolers are allowed.

Kill Switches: An Electronic shut down that must kill power to electric fuel pumps. Must be mounted within 12 inches and above the pulling hitch. Switches will be tested. Air shut off is recommended.

Safety Equipment: All drivers must wear a helmet, and a single layer fire suit, jacket and pants. Must carry a fire extinguisher in driver's compartment. All exposed u-joints must be shielded, along with axle bolts. Full loops and shields recommended.

Tech Inspection: During tech inspection driver must comply with all tech requests. Tech official has final say.

**ALL GENERAL RULES APPLY.**