

### **3.0 Limited Pro Diesel Truck 8000 lb**

The vehicle may be two or four-wheel drive. Pulling vehicles may be held for post competition tech inspection. Failure to abide may result in a DQ.

**Weight:** 8000 lbs. Maximum, with driver.

**Ballast:** Ballast is permitted. Hanging weights may not extend more than 60 inches from the centerline of the front axle.

**Batteries:** The batteries must be securely mounted. They may not be located in the driver compartment or forward of weight bar. Master Disconnect Recommended

**Body:** The body must be an OEM truck body, The body must retain full factory sheet metal. Metal aftermarket hoods are permitted. Fiberglass is prohibited. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and complete OEM floor pan is mandatory, but may have access panels that bolt securely to OEM floor. No Flat Beds. A truck that has "Modified" their OEM Frame/Body is limited to 158" wheelbase. The modifications must use all OEM parts for modification. Bed floor may be removed, but the bed must then be covered.

**Brakes:** Front 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:** Optional.

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

**Driveline:** Open Driveline, Axle Shields Required

**Driver Restraint System:** The OEM restraint system is mandatory and must be worn. 5 Point Harnesses are acceptable.

**Driveshaft Loops/ U-Joint Shield:** must have a minimum of six-inch wide u-joint shields around u-joints at both axles 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 drive shaft. Minimum Of 3 loops per rear shaft/as many as practical on remaining shafts evenly spaced. Constructed of at least 1/4 inch steel or 3/8 inch aluminum that will safely contain the drive shaft.

**Engine:** The engine block must have been available as a factory option on a one-ton or smaller pickup truck. Filled block allowed. No billet aluminum or billet steel blocks/heads. Aftermarket radiator assemblies are permitted, but must be securely mounted in the same area as the OEM unit.

**Fire Suit:** SFI approved Fire jacket, long pants and leather shoes are required for all drivers of trucks.

**Helmet:** A motor sport type helmet is required for all drivers of trucks.

**NITROUS OXIDE:** Prohibited along with other oxygen extenders and the use of PROPANE is also prohibited. All system components MUST be removed.

**Exhaust:** 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. Hood stack exhaust must be at least 6" above the closed position of the hood.

**Fire Extinguisher System:** A fire extinguisher is mandatory. Must be in reach of the driver. An onboard fire suppression system is permitted

**Fuel:** The fuel must be pump #1/#2 diesel; Soy/Biodiesel fuel is permitted. All fuel must be commercially available. The fuel tank must be in the O.E.M location /or/ in an approved racing type fuel cell mounted and properly secured. If the fuel cell is installed in another location a ball valve that is clearly marked and easily accessible is required. The fuel cell may not be in front of the weight bar or anywhere in the driver's compartment.

**Fuel Injection Pump:** The fuel injection pump is limited to a stock-appearing, engine pump only. Dual high-pressure common-rail fuel pumps or HPOPs are permitted. Maximum size is a P7100 of pump. One plunger per cylinder, no Sigma, Billet or re-cast pumps. A 3-way dump valve mounted before the injection pump is mandatory which can be operated by the driver while strapped in the seat.

**Harmonic Balancer:** All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.

**Ice Water Intercoolers:** Ice water intercoolers are permitted.

**Hitch:** 26 inch height. Reinforcements are permitted. 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's height from the ground may not exceed 26 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 rear of the opening in the clevis/hook, clevis loop. Final decision of legality of all hitches resides with the head tech official. Any reinforcements attached to the axle must be below the centerline of the axle.

**Interior:** A single aftermarket seat is permitted but must be equipped with a safety restraint system. Cab may be gutted.

**Rear End:** Open Driveline

**Steering:** 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.

**Street Equipment:** Complete windshield and windows are mandatory. Windows must be operative per factory specifications; that is, they must open and close via OEM electrical or mechanical means. Driver's window must be completely rolled up while competing. Other windows on trucks may be lowered.

**Suspension-Front:** Modifications to the front suspension that would alter its original location (moving if forward or rearward) is not permitted. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted.

**Suspension-Rear:** Rear end must be in OEM factory location (moving if forward or rearward) is not permitted. Traction bars and devices are permitted. Rigid suspension permitted. May be bolted or welded solid to eliminate travel. Open rear end permitted.

**Tires:** The tires must be DOT street tires. Cut tires are prohibited. Dual wheels allowed. (35" x 12.50" max tire)

**Throttle:** 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

**Transmission-Automatic:** Non-OEM transmissions are allowed. 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 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 is permitted; it must be appropriately labeled as meeting SFI Spec 4.1 and it must extend from the rear of the block to the front of tail housing with a minimum six-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 engines running 4500 RPM or more and using an automatic transmission must be equipped with a flex plate meeting a Minimum SFI Spec 29.1 and be covered by a flex plate shield meeting SFI Spec 30.1

**Transmission-Manual:** Non-OEM transmissions are allowed. Aftermarket internal components are permitted. 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 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 block and extend rearward to the transmission with a minimum six inch overlap where it is fastened.

**Turbocharger:** The vehicle is limited to a single turbocharger; the inducer bore on the compressor housing is limited to a maximum of a 3.0", turbo charger must be smooth faced intake housing, limited to a 3.0" inlet, (no map ring) with all air entering through the 3.0" intake opening. Intake wheel must protrude 1/8th inch inside of the opening. The inlet will be measured using a 3.05"-inch plug or internal calipers. Measurement point will be at the actual turbo housing inlet. 6.4 liter PowerStroke engines may utilize the 100% factory twin-turbo configuration. A SCTPA Legal 2.5/ PPL 2.6 Smooth Bore Turbo charger is permitted in the class. Any other legal smooth bore turbo will be allowed up to the 3.0 Smooth Bore size. The vehicle driver will be responsible for making the compressor wheel accessible for tech personnel to measure bore, and inspect the compressor wheel. No removable plugs or reducers allowed reducing to legal spec.

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

**Wheelbase:** The vehicle must retain the original factory wheelbase and track width. Front dual wheel spacers may be used only with accompanying positive-offset dually style wheels. A truck that has "Modified" their OEM Frame/Body is limited to 158" wheelbase. The modifications must use all OEM parts for modification

**\*\*All interpretation of these rules lies with Lorah's Truck Pull Tech Officials and their decision is final.**