

Limited Pro Stock Diesel (LP)



Limited Pro Stock Diesel Category Rules

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Weight breaks

8000 lbs. Weight is with driver.

REGULATIONS

Ballast:

Hanging weight may not extend past 60 inches from the centerline of the front axle. Weights must be securely attached to the vehicle.

Batteries:

The batteries must be securely mounted. They may not be located in the driver compartment.

Body:

The body must be the OEM truck body, including the full bed floor. The body must retain full sheet metal. After-market hoods are permitted. Hood must be closed and securely latched while vehicle is hooked to the sled. Complete OEM floor pan and firewall are mandatory.

Brakes:

Front brakes are mandatory, rear brakes are optional.

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. The vehicle must retain the original factory wheelbase and track width. Maximum of 1 ton truck chassis allowed.

Credentials:

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

Driveline:

Drivetrain may consist of any front axle, transmission, transfer case and rear axle. No planetaries permitted. All trucks must have at least six inch wide u-joint shields around the rear u-joint constructed of at least ¼" steel or 3/8" aluminum that will safely contain the u-joint and the end of the rear shaft. Any front shaft u-joint that is visible from the side of the vehicle must be shielded to contain the u-joint and the end of the shaft. All shields must be securely mounted to the vehicle. Axle shields of at least .060 thickness aluminum or steel are required. Shields may not be mounted to axle ends or hub bolts. A hole may be cut in one to allow locking in of front hubs.

Driver Restraint System:

The OEM or equivalent SFI restraint system is mandatory and must be worn.

Engine:

The engine is limited to a stock-appearing, compression ignition engine. Engine and transmission can be interchanged between Dodge, Ford and GM as long as they came in a 1 ton or smaller truck from the factory. Complete engine must have stock appearance except where otherwise noted in these rules. Aftermarket intake manifolds are allowed. Front of engine block can be no farther forward than 17" of the centerline of the front axle. Cylinder head must be OEM or OEM replica for that brand engine. Outside of head must measure factory width and length. Head must retain OEM valve angle.

Exhaust:

The exhaust must exit the vehicle upward within ten degrees of plumb. Two 3/8" diameter bolts must be placed through the exhaust pipe in a cross pattern within one inch of each other, within 12 inches of the turbo.

Fire Extinguisher System:

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

Fuel:

The fuel must be pump #1/#2 diesel only. Soy/Biodiesel fuel is permitted. Off-road diesel fuel is prohibited. Propane and nitrous are prohibited. Racing fuel cells are allowed.

Fuel Injection Pump:

Maximum of one P7100 pump limited to one plunger per cylinder. The use of multiple high-pressure common-rail fuel pumps is legal. Powerstroke engines with a single factory turbo may utilize a second HPOP.

Hitch:

Trick hitches are prohibited. The hooking point must be no closer than 44" of centerline of the rear axle. The hitch must be easily accessible and 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 3.00 inch wide by 3.75 inch long inside diameter opening for the sled hook. Hitch must not exceed a maximum of 25 degree angle from the pivot point to the hook point. No hitch supports or adjusters, if fastened to the rear axle housing shall be above the centerline of the rear axle. Pivot pin of drawbar can be no farther forward than the center line of the rear axle.

Master Cutoff:

A sled and driver operated spring loaded emergency air shut off is required (rain cap or guillotine). The cable must terminate into a two inch diameter steel ring at the rear of the truck, within twelve inches of the hitch.

Nitrous Oxide:

Nitrous oxide is prohibited. No other oxygen extenders are allowed. All system components must be removed from the truck or bottles removed and lines capped after the solenoids.

Propane:

Propane is prohibited. All system components must be removed from the truck or bottles removed and lines capped after the solenoids.

Safety equipment:

All drivers must wear fire suit or coat and pants (SFI3.2/A1 or better). All drivers must wear a Snell approved helmet.

Steering:

Hydraulic steering permitted.

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. Final decisions rest with the MLM Technical Department.

Suspension, Rear:

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. Strut tower braces, lower tie bars, sway bars, limit straps, and camber kits are permitted. Blocked suspension is permitted. No air bags.

Tires:

The tires must be DOT street tires. Cut tires are prohibited. No tire alterations allowed. Dual rear wheels permitted with a maximum outside tire to tire measurement of 102". Dual front tires are prohibited.

Transmission, Automatic:

Non-OEM transmissions are prohibited. Aftermarket torque converters, valve bodies and internal components are permitted. Transmission brakes are prohibited. 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 to the front of transmission main body. The bellhousing area is to be completely covered and have six inches of overlap where the blanket is fastened. All non-blanket type shields must incorporate two (or one per manufacturer's specifications) 3/4" by 1/8" 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 using 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. Aftermarket internal components are permitted. A clutch meeting minimum SFI spec 1.1 or 1.2 is mandatory on all vehicles. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All vehicles equipped with a manual transmission must have a flywheel shield labeled as meeting minimum SFI spec 6.3 or greater. Applications for which a SFI spec flywheel shield is not available may use a properly attached SFI 4.1 or 4.2 blanket which completely covers the bellhousing. It must be attached at the block and extend rearward to the transmission with a minimum of six inch overlap where it is fastened.

Turbocharger:

The turbocharger is limited to one single smooth faced intake housing turbo with an inducer bore of 3.0 inches or less. No map ring allowed. All air must enter through the 3.0 inch intake opening. Intake wheel must protrude 1/8" inside of opening. Driver will be responsible to come to scale with turbo accessible for measuring.

***Legal 2.6 turbo chargers that competed with MLM Motorsports in 2017 will be allowed to run in 2018. In 2019 only smooth bore turbos will be allowed.**

Water Injection:

Water injection is prohibited. Alcohol, methanol and all other flammables prohibited. All system components must be removed from the truck.

Wheelbase:

The vehicle must retain the original factory wheelbase and track width.

***All judgement calls will be made by MLM tech officials and will be considered final.**