

# 8500 Street Legal Diesel

## 1. 8500 pound maximum weight with driver

Hanging weight is prohibited

All weight must be no further than the front of the bed and securely mounted

No weight allowed inside the cab

## 2. Diesel fuel only

No injectables such as nitrous, water, propane, ECT.

truck must utilize factory fuel tank, fuel cells are prohibited

## 3. Vehicle must be registered and insured

Must have all exterior sheet metal and bed floor, fiberglass hoods are permitted

Bumpers can be aftermarket but cannot be filled, tech official will have final say

Flat beds are permitted

Must have full interior, aftermarket seats are permitted.

## 4. Engine modifications

Tuning is permitted

Any turbo configuration is permitted

aftermarket lift pumps/fuel transfer pumps are permitted

injection pumps and high pressure oil pumps are limited to OEM style.

Dual High pressure oil pumps and cp3 pumps are permitted

Ag/RSV governors are prohibited

P pump 24 valves are permitted

## 5. All exhaust must exit upwards as to not impede sled operators ability to see

hoods stacks, bed stacks are permitted

Factory style exhaust must have 90\* elbow to direct exhaust upwards

## 6. Driveline can consist of components from 1-ton or less truck

OEM style transfer case, No drop boxes

Limited slip, lockers and spools permitted

## 7. Tires are limited to 35x12.50/ metric equivalent

Tires must be DOT approved

No cut or altered tires

## 8. Suspension must consist of components from a 1-Ton or less truck

Air bags are permitted

Traction bars are permitted

Bolt in solid suspension stops only, suspension must not be welded solid

## 9. Hitch must be reese style

Hook point must be no less than 44" to the centerline of rear axle

Hitch must be solid in all directions

No part of hitch may extend beyond the centerline of the rear axle

Receiver tube must be parallel to the ground  
Maximum hitch height of 26"

#### **10. safety**

All trucks must be equipped with a minimum of 3lb ABC extinguisher  
Exposed U-joints must be either shielded or wrapped in Duct tape  
Hitch opening must be 3"x3.75"

## **8000 Lbs LPSD PPL (2.6SB/ 3.0SB)**

1. Maximum weight 8000lbs. (Dry weight 7900# for ice allowance at scales.)
2. The OEM chassis is mandatory. The vehicle must retain a full ¾ or 1-ton size chassis. Wheel tubs, back-half conversions, tube chassis prohibited. Maximum wheelbase 158" and 102" maximum width. (outside tire to outside tire). Rigid suspension allowed. Hydraulic steering permitted. (Intent= no Isuzu or compact diesel chassis)
3. The body must be OEM truck body, including full metallic floor pan and must retain complete OEM firewall. Beds must be covered. No flatbeds permitted. The body must retain full metal, aftermarket steel hoods are permitted. The must be closed and securely latched while hooked to the sled.
4. Maximum engine size will be 460 cubic inch. Engines must come from factory in one ton or smaller diesel pickup truck. Engine must remain in stock location as intended by manufacturer. Engines may be interchanged between manufacturers.
  - a. No aftermarket blocks permitted
  - b. Head must be OEM or OEM one piece cast replica for that brand engine. No billet heads of any material. Outside dimensions of cylinder head must measure factory width and length. Head must retain OEM valve angle.
5. Front of engine block can be no farther forward than 17" of center line of front axle.
6. Engine must have cable surrounding block and head. Cable must be minimum 3/8" diameter located between cylinders #1 and #2. Cable must pass thru manifolds. Cable will have 4-6" of slack with a minimum of 4 cable clamps at splice.
7. All engines will have a deflection shield, running the complete length of the block casting. Shield must be securely fastened and must be .060" thick. (This equates to a steel inner fender)
8. Hook point must be no closer than 44" of center line of rear axle, hitch height maximum of 26", with a minimum of a 3.75" X 3.0" opening. Hitch 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 center line of rear axle or behind. Hitch must not exceed a maximum of 25° angle from pivot point to hook point. Drawbar height adjustment link if attached to rear differential housing the attaching point must be at axle centerline or below. The drawbar adjusters cannot attach to anything above centerline of the rear axle. The adjusters must go down from drawbar. The adjusters can only go straight

downward vertically or towards rear differential housing. No slotting of holes for adjuster attachment. No hitch supports or adjusters 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 center line of the rear axle.

9. Secondary hitch required. Minimum of 3/8" steel, located 12" below primary hitch on the same vertical plane. (You should be able to look directly through both at the same time – they need to be lined up.)

10. The turbocharger is smooth faced intake housing, limited to a maximum of 3.0" inlet, (no map ring) with all air entering through the 3.0" opening. Intake wheel must protrude 1/8th inch inside of opening.

11. Exhaust must exit straight up, with (2) 3/8" bolts mounted in a cross pattern no more than 1" apart as close to the turbine wheel as possible, no more than 6" away from turbine wheel.

12. Intercoolers allowed. Dumping or draining intercoolers without a catch pan within 100 feet of competition track is prohibited.

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

14. Air shut off must have a cable that goes to the rear of truck operated by the sled operator and also one to the cab of the truck. Kill switch will be securely mounted to the back of the vehicle and have a two (2) inch diameter metallic ring to attach the sled.

15. Fuel Systems: Maximum of one P7100 pump (2 5/8"W x 9 9/16"L x 8 3/16"H main pump body), limited to one plunger per cylinder. The use of multiple high pressure common rail fuel pumps is allowed. Ford Powerstroke engine may utilize a second HPOP. Electronic fuel injection is permitted. A 3-way dump valve mounted before the injection pump is mandatory which can be operated by the driver while strapped in the seat.

16. No fuel lines or tanks permitted inside of truck cab unless securely mounted in marine box.

17. Fuel limited to diesel fuel. No alcohol, nitrous, propane or any oxygen enhancing agents allowed.

18. Must run DOT approved tire. Maximum tire height 35", no studded tires or chains. No alteration to DOT tires allowed. Dual rear wheels are permitted on rear axle only. Maximum of 6 tires.

19. Front weights must be no more than 60" from the center line of the front axle to forward most point and be securely fastened. No weights are allowed in cab of the truck. If weights are located in the bed of truck they are to be securely fastened to the bed of the truck.

20. Drive train will consist of the following: Any front axle, any transfer case and any rear axle. No planetaries permitted.

21. Axle shields are required. Shield to be .060" thickness steel or aluminum. Shield not to be mounted to axle ends or hub bolts. A hole may be cut in one to allow locking in of hubs.

22. No cast iron clutches or flywheels permitted, must be SFI approved. Trucks with automatic transmissions, refer to General Rules.

23. SFI bellhousing blankets and/or SFI blow proof bellhousing required.

24. All U-joints must be shielded 360 degrees with 3/8" thick aluminum w/1/8" steel liner or 5/16" thick steel. Shield will be 6 inches long minimum and centered on u-joint. Inside diameter of shield will be no more than 2 inches larger than u-joint.

25. All intermediate shafts between the transmission and transfer case will be totally enclosed in 3/8" aluminum or 5/16" steel, 1/4" of shaft may be visible.

26. Fire extinguisher (2.5#) or fire suppression system, Helmets-Snell 90 or better, SFI fire suits, head sock, gloves, shoes, and seatbelts required.

27. No traction control permitted.