

# **2018 Battle of the Bluegrass Rules**

## **Limited Pro Stock Diesel Trucks 3.0 4x4**

### **8000lb**

#### **Ballast:**

Ballast is permitted. Front hanging weights are permitted. Front ballast and ballast mounting point must be easily removable, but securely mounted. May not extend more than 60 inches from the centerline of the front axle, and be high enough to clear scale and other pit obstacles. If it hits the scale, it must be removed to compete. Ballast may be added to the bed of truck. If used it must be securely fastened to the bed. Final decisions rest with the technical department.

#### **Batteries:**

The Batteries must be securely mounted can be in anywhere, but if in cab must be covered completely.

#### **Body:**

The body must be the OEM truck body. 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 floor pan is recommended. Only factory installed Pickup beds or commercial style aftermarket bed must be installed. NO FLATBEDS.

#### **Brakes:**

Front wheel hydraulic functional 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 OEM chassis. Wheel tubs, back half conversions, tube chassis, etc, are prohibited.

#### **Rear End:**

Non OEM rear-end housings are permitted.

#### **Driveline**

An OEM transmission and transfer case are excepted. They may have been an option on a one ton or smaller pickup. Driver Restraint System or the OEM restraint system is mandatory and must be worn.

**Driveshaft Loops:** All trucks **must have** at least six (6) inch wide u-joint shields around all u-joints on rear drive shaft constructed of at least 1/4 steel or 3/8 aluminum that will safely contain the u-joints and the ends of drive shafts. Any u-joint 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. A new puller may be granted a **one-time** wavier.

### **Engine:**

The engine block must have been available as a factory option on a one ton or smaller pickup truck. **Cubic Inch limit of 444 CI.** Water pumps may be factory or electric powered. Electric cooling fans are permitted.

**Exhaust:** 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 are **prohibited**. Two (2) 3/8 inch diameter bolts must be installed through exhaust pipe in a cross pattern within one (1) inch 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 **disqualification**.

### **Fire Extinguisher System:**

A fire extinguisher system is permitted, it must be securely mounted All vehicles must have at least a 2 1/2 lb extinguisher with working gauge mounted within drivers reach.

### **Fuel:**

Diesel fuel ONLY

### **Fuel Injection Pump:**

The fuel injection pump is limited to cylinder number specific (I.e. 6 cylinder pump on a 6 cylinder motor). Dual high pressure common rail fuel pumps or HPOPs are permitted. P3000 or P7100 only

Ag governors are allowed. **No Sigma or 12 cylinder pumps allowed.** A 3 way dump valve must be installed close to pump on all manual pumps and operated from the drivers compartment. Hand throttles may be used and must be spring loaded to return to idle when released. P3000 or P7100 only

on P Pump trucks. No 8600 pumps.

### **General Rules:**

All vehicles/drivers must comply with general rules.

### **Harmonic Balancer:**

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

### **Hitch:**

The hitch may be a receiver- style hitch or a custom drawbar type. Reinforcements are permitted. Reinforcements must not extend forward of the center line of the rear axle and must remain inside the frame rails. The hooking point must be the rear most point on the vehicle and must be rearward of the stock location of the tailgate. The hitch must be stationary in all directions. Bumper may be notched or removed. The hitch's height from the ground may not exceed **26 inches**. The hooking point must have a minimum of 3 inch by 3 3/4 inch inside opening for the sled hook. The hooking point must be a minimum of **44 inches** from the center of the rear axle, to the end of the hole where the hook touches metal to be pulled from, this is the hooking point.

### **Intercoolers:**

Factory style or aftermarket intercoolers are allowed. Water to air intercoolers allowed. Ice and water must be weighed at the time of crossing the scales.<sup>[SEP]</sup>

**Kill Switches:**<sup>[SEP]</sup>All 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. If during competition the<sup>[SEP]</sup>kill switch slides loose or falls out distance will be measured. Securing the kill switch is the driver's responsibility.

### **Nitrous Oxide:**

Nitrous Oxide is prohibited. No other oxygen extenders are allowed. All system components must be **removed** from the truck.

**Propane:**<sup>[L]</sup><sub>[SEP]</sub>Propane is prohibited. All system components must be **removed** from the truck.

**Safety Equipment:**<sup>[L]</sup><sub>[SEP]</sub>All drivers must wear a helmet, and a **SFI 3.2a** approved fire jacket and fire pants, and leather shoes.

**Steering:**

The vehicle may retain the original OEM steering gear or use an electric over hydraulic steering. Additional stabilizers are permitted.

**Suspension - Front:**

The factory suspension configuration must be retained. Modifications to the front suspension that would alter the original location (I.e. moving it forward or backward) 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.

**Tires:**

The tires must be DOT street tires, with a tire limit size of 35 inches. Cut tires are prohibited.

**Transfer Case:**

After market allowed

**Transmission - Automatic:**

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. Vehicle must not start in gear. All transmission lines must be metallic or high pressure type hose. All automatic 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 be from the rear of the engine block and extend rearward onto the transmission, with a minimum of six (6) inch overlap where it is fastened. All vehicles using an automatic transmission must be equipped with a flex plate meeting SFI Spec 29.1.

**Transmission - Manual:**

After market transmissions are allowed. Must have an SFI Clutch and Flywheel spec of 1.1 or 2.1. SFI approved Blanket of 4.2 or SFI Clutch can with a Spec of 6.3.

**Turbocharger:**

The vehicle is limited to a single 3.0 smooth bore only. NO MWE allowed. Must protrude no less than 1/8 inch into a 3 inch bore.

**Water Injection:**

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

**Wheelbase:**

The vehicle must retain the original factory wheel base and track width. Cab and chassis trucks may not exceed 172 inch center to center of axles. Front dual-wheel spacers may be used only with accompanying positive-offset dually style wheels.

All vehicles must cross scales and enter the track under their own power. All 3.0 Trucks with open driveline, truck wheel base must not exceed 158 inches.