

## Brush Pullers of Missouri Work Stock Diesel rules Revised 2016

The vehicle may be two or four-wheel drive.

Weight: 8000 lbs. Weight is with the driver

### Ballast:

If ballast is used, ballast must be securely fastened to the bed only. Final decisions rest with the tech officials. No hanging weight in front of the front bumper.

### Batteries:

The batteries must be securely mounted in the OEM location. They may not be located in the driver compartment or forward of the radiator core support.

### Body:

The body must be the OEM truck body, including the full bed floor. Metal after-market 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 OEM floor pan is mandatory.

### Brakes:

Four-wheel hydraulic brakes are mandatory.

### Bumpers:

Front bumpers must be unaltered factory stock. No weighted front devices are permitted. This includes but limited to: homemade bumpers, brush guards, "ranch hand" type bumpers and winches. Lower brackets (only) for snowplows frames are permitted so long as no modifications that would add weight are present. An unaltered decorative brush guard may be permitted at the option of the head tech officials. Final decisions rest with the tech officials.

### 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. Traction bars and bump stops are allowed. Wheel tubs, back-half conversions, tube chassis, etc., are prohibited.

### Cooling System:

Radiators must be in the stock location and be of at least stock size.

### Credentials:

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

### Driveline:

An OEM transmission and transfer case are mandatory. They must have been an option on a one-ton or smaller pickup. (No drop or profab transfer cases)

### Driver Restraint System:

The OEM restraint system (Seat belt) is mandatory and must be worn.

#### Engine:

The engine shall be stock-appearing. OEM make-specific compression ignition Engine. Engines must not exceed 5000 rpms.

#### Exhaust:

Exhaust must exit behind cab.

#### Fuel:

The fuel must be pump #2 diesel only. Soy/Bio-diesel fuel is permitted. Off-road diesel fuel is prohibited. NITROUS OXIDE is prohibited along with other oxygen extenders as well as the use of PROPANE is also prohibited. All system components MUST be removed from the truck.

#### Fuel Injection Pump:

The fuel injection pump is limited to a stock-appearing, OEM engine model-specific pump only. The use of multiple high-pressure common-rail fuel pumps is permitted. Power stroke engines with a single factory turbo may utilize a second HPOP. Pumps from different years in the same engine model may be interchanged. Cylinder number specific (IE: 6 cylinder pump on a 6 cylinder engine). Ag governors are prohibited. Sigma or 12 cylinder pumps are prohibited. Pusher pumps are ok.

#### Fuel System:

The OEM fuel tank in OEM location is mandatory and must be used. Racing fuel cells are prohibited and must be removed from the vehicle.

#### Harmonic Balancer:

All engines turning 4500 rpm and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.

#### Hitch:

The hitch must be a receiver-style hitch; reinforcements are permitted. Reinforcements must not extend forward of the centerline of the rear axle or to the axle housing itself. Trick hitches are prohibited. 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 horizontal to the ground and stationary in all directions. Bumpers may be notched or removed. The hitch's height from the ground may not exceed 26 inches on 4wd units. 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 center of the clevis hoop.

#### Interior:

A complete interior, including dashboard, door panels, headliner, etc., is mandatory. Two matching front seats are mandatory. Aftermarket seats are permitted; they must be fully upholstered. All factory controls (lights, signals, horn, windows, wiper, etc.) must be retained and be operative. The use of hand-throttle controls is prohibited.

#### Rear End:

Non-OEM rear end housings are prohibited.

#### Steering:

The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non-OEM power assist methods are prohibited.

#### Street Equipment:

Complete headlight and taillight assemblies (all) are mandatory and must be operative. Complete OEM 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.

#### 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.

#### Suspension, Rear:

An OEM-style suspension is mandatory. Lowering or raising the vehicle height with suspension modifications is permitted. Traction bars and devices are permitted; they must be bolt-on only; welds are permitted for attachment to frame or axle housing. All OEM suspension mounting points must be retained and used. Sway bars, limit straps, and camber kits are permitted. Compression stops must be adjustable. All rear suspensions must use at least one working shock absorber per wheel. Airbag spring assistance is permitted; airbag compressors must be disconnected.

#### Transmission, Automatic:

Non-OEM transmissions are prohibited. Aftermarket torque converters, valve bodies and internal components are permitted.

#### Tires:

The tires must be DOT street tires. Cut tires are prohibited. Dual Wheels are permitted only on trucks with a specific OEM bed designed for this application. Dual wheels must be covered by bed or fender.

#### Tuner:

A single tuner (Edge, Bully Dog, etc.) is permitted.

#### Turbocharger:

The turbocharger is limited to a stock-appearing, OEM/Factory make-specific charger only. Internal modification of the OEM/Factory charger permitted. Turbochargers from different years in the same make may be interchanged, no adapters to accept other model turbo. 6.4 liter Power stroke engines may utilize the factory twin turbo configuration.

#### 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.