

SUPER STOCK 4X4 TRUCKS

Adopted: January 2024

USA-EAST Officials reserve the right to alter these rules before or during the season in order to deal with safety related issues or to insure the competitive nature of the class. The provision for 'bumping up' from other FWD CLASSES lies with the head official and may or may not be available at every event.

COMPETITION VARIANCES

1. Four-Wheel-Drive Trucks

a) Maximum weight of all 4x4 will be 7,500 lbs.

b) Limited Pro Diesel (3.0) trucks will be allowed to compete in the RWYB class at a maximum weight of 8,000 lbs. if they comply with all current rules in place for their respective class. If the turbo, tires, etc. are changed from current 3.0 rules, maximum weight is limited to 7,500 lbs. as all other 4x4 trucks. 3.0 trucks will only be allowed to compete in one class per event if both RWYB & 3.0 classes are offered.

c) Maximum drawbar height for all 4x4 trucks will be 26", with the following exceptions;

i. Naturally aspirated trucks will be 28" hitch.

ii. Naturally aspirated with nitrous will be 27".

DRAWBARS

Diesel Super Stock Trucks, Lim Pro 3.0 Trucks, Nitrous Engine Trucks 134"-158" wheelbase – 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 33° angle from pivot point to hook point. No hitch supports or adjusters, fastened to the rear axle housing shall be above the center line of rear axle. Pivot pin of drawbar can be no further forward than centerline of the rear axle.

Naturally Aspirated or Blown Alcohol Engine Trucks with 133" Wheelbase or smaller Hook point must be no closer than 30% of the actual wheelbase of the truck (133" wheelbase is 39.9" hitch length) Hitch height maximum of 26" (with above exceptions), with a minimum of a 3.75" X 3.0" opening. 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 33° angle from pivot point to hook point. No hitch supports or adjusters, fastened to the rear axle housing shall be above the center line of rear axle. Pivot pin of drawbar can be no further forward than centerline of the rear axle.

DRIVELINE

Aftermarket transfer cases are permitted. Planetary axles are permitted. Axle shields are required and will be .060" thickness in steel or aluminum. Shield shall not be mounted to axle ends or hub bolts. An access hole may be left open to allow locking in the hubs.

ENGINES

All engines must be behind the grill. Gasoline or alcohol engines, rear of engine block can be no further forward than the center line of the front axle. Diesel engines, front of engine block can be no farther forward than 25" of center line of front axle.

● GASOLINE or ALCOHOL ENGINES may utilize a single supercharger or a single turbocharger. All shields and restraints on the supercharger must be in place. (See turbochargers/superchargers section)

○ Maximum supercharger size: 14-71, 19-inch rotor length. For vehicles utilizing an 8-71 blower the following dimensions: 16-inch rotor case length.

○ Screw-type superchargers are not permitted.

○ Variable multi-speed supercharger devices prohibited.

○ Pro-Chargers are allowed a maximum size of F-3R-130

○ Fuel injection is permitted. A single turbocharger is also permitted in this configuration.

○ Supercharged or single stage turbocharged engines are limited to 575 cubic inches.

DIESEL ENGINES

are restricted to 6 cylinder and 8-cylinder compression ignition engines. Class maximum of 460 cubic inches will be enforced. Diesel engines must have been available in a one-ton or less truck from the factory. Sigma fuel pumps are permitted. Water injection is permitted. The fuel must be pump #1/#2 diesel only. Soy or Biodiesel fuel is permitted. Diesel engines may use an unlimited size turbocharger(s). International DT466 blocks or their replacements will be limited to 2 turbochargers and 2 Pressure stages. Maximum of 460 Cubic Inches.

EXHAUST

● The exhaust on a GASOLINE or ALCOHOL vehicle may exit downward at the back of the truck or directly out the back of the truck or straight up through the hood of the truck or straight up at the back of the cab.

● All DIESEL vehicles must be equipped to direct exhaust upward.

FIREWALL

Each vehicle must be equipped with an OEM or minimum 0.024-inch steel firewall, OR ¼" Lexan from side to side of the body and from the top of the engine compartments upper seal (hood, cowl, or deck) to the bottom of the floor and/or belly pan. The firewall must provide a bulkhead between

the engine and/or fuel tank and driver compartment. All openings must be sealed with metal-excluding grommets. The use of magnesium is prohibited.

FLOOR

Each vehicle in competition must be equipped with an OEM floor pan or a minimum 0.024-inch steel floor pan that extends the full length and width of the driver seating area. Non-OEM floor pans must have cross members (minimum two inch by two-inch, 0.083-inch wall thickness square tubing) installed between the frame rails for proper seat and driver restraint system installation and support. All openings must be sealed with metal-excluding grommets. The use of fiber glass and/or magnesium is prohibited.

GENERAL

1. Clear plexiglass or factory tint glass permitted.
2. No mud flaps or dirt deflectors will be permitted.
3. No fuel tanks, fuel lines, pressure gauges or pumps allowed in cabs. All hydraulic lines in the cab must be shielded top and sides with a minimum of .060 aluminum.
4. All air or hydraulic suspension systems cannot have hydraulic, air, or electric lines attached to these devices during competition.
5. No digital, microprocessor, computer, or programmable ignition controls. No traction control ignition accessories. No six shooter, power grid systems or similar type ignition controls. (Starter saver allowed)

NITROUS OXIDE

Nitrous Oxide is permitted for use on any naturally aspirated gasoline engine. This may not be used with alcohol or with any turbocharged or supercharged engine.

OTHER FUELS AND ADDITIVES

Propane/NOS, etc. is prohibited on all engines except naturally aspirated gasoline engines. System components used for these banned substances must be fully removed from the truck. Other oxygen extenders are prohibited such as propylene oxide additives. Racing fuel is permitted.

TIRES

1. Four-wheel drive
 - a) Bar tires, maximum of four (4) tires, no duals, no combination of bar tires & DOT tires.
 - b) DOT tires, maximum tire height 36", no studded tires or chains. Dual rear wheels are permitted on the rear axle only. Maximum of 6 tires.

TRANSMISSIONS

Aftermarket transmissions are permitted. All manual transmissions must be clutch assisted, sequential shifters are prohibited.

WEIGHTS

Front weights may not extend more than 60 inches from the centerline of the front axle. No loose weights allowed in the cab or under the hood allowed. Front weight boxes will be rigid & have a minimum of eight (8) inches of ground clearance for staging & competition. Front tow hitch will be strong enough to push, pull or pick the vehicle up. Only a 6x6 piece of steel with a minimum thickness of 1" and a maximum of 1.25" thickness will be allowed. A round three (3) inch hole is required in front tow hitch.

WHEELBASE

The maximum wheelbase length allowed is 158 inches. The maximum wheelbase variation from left to right is one inch; the measurement will be made using an X pattern (LF-RR and RF-LR). The maximum tread width is 102 inches. Extending rear wheels beyond the OEM position is permitted.