

#400 TO #499 SPORTSMAN FORMULA 4X4 TRUCK TECHNICAL SPECIFICATIONS

DEFINITION

- Four-wheel drive sport utility class. “Stock” as used here, for “stock frame” is defined as a frame sold as a sport utility passenger vehicle and produced in volume of at least 5,000 units by the original manufacturer. This Class will share the track with Super Truck and Sportsman 4WD classes and must have a minimum field of four on the first day of competition to participate
- Technical specifications for this class supersedes CCR

CHASSIS

- Wheelbase no longer than 120.5"
- The maximum overall width, at stationary ride height, is 82" measured from the most outside part of a tire or wheels, regardless if that part of tire touches the ground or not.
- Stock frame must be retained and used from the most forward attachment of any front suspension component to the center of rear axle. For example, front horns may be removed but the stock frame must be in place where front of “An arm” or “leaf spring” bolts on
- Boxing, gusseting and plating are allowed
- Reworking a frame to reduce weight, lower the center of gravity or increase wheel travel such as channeling, kicking or replacing large sections with non-OEM metal is not allowed

SUSPENSION

- Anti-wrap devices are allowed
- Hydraulic bump stops are allowed with 4" maximum travel
- Sway bars are allowed
- Maximum wheel travel front and rear 14"

SHOCKS & SPRINGS

- Shocks are 2" maximum diameter, 14" maximum travel, with no limit to quantity per wheel
- 2 ½" or 3" diameter shocks may be used but, only one shock per wheel
- Remote reservoir canister shocks are allowed
- External valves are not allowed
- Bypass shocks are not allowed
- 3 or 4 link rear suspensions are allowed. Any spring is allowed
- All front suspensions can use coil springs, coil carriers, coil over shocks

BRAKES

- Any stock or aftermarket combination of brake components is allowed. The vehicle will be required to demonstrate that all four wheels lock, prior to racing.

RIDE HEIGHT

- All vehicles must clear 10" below the lowest point to level ground

WEIGHT

- Vehicles under 95" in wheelbase must weigh at least 3,500 pounds at pre-race with the driver
- Vehicles from 95" to 110" in wheelbase must weigh at least 3,800 pounds at pre-race with driver
- Vehicles with a wheel base longer than 110" must weigh a minimum of 4300# or 10.5# per cubic inch, whichever is greater
- Any vehicle using aluminum cylinder heads must weight a minimum of 4,100 pounds
- All 2 valve engines must be 10 pounds per cubic inch and all multi valve engines must be 12 pounds per cubic inch

BODY

- The body must match the silhouette of a vehicle produced in quantities of at least 5,000 per year

ENGINE

- Maximum engine size is 430 cubic inch displacement
- Head porting or polishing is allowed
- Roller cams are allowed
- Piston Changes are allowed
- Stroke and bore changes are allowed
- Aluminum heads allowed but total vehicle weight must be over 4,100 pounds
- Rod and crankshaft changes, accu-sumps, cooling and oiling modifications are allowed
- Dry Sumps are allowed
- Titanium connecting rods or crankshafts are not allowed
- Crank fire ignitions are not allowed
- Aluminum engine blocks are not allowed unless OEM for that chassis.
- Heads having intake and exhaust chambers in different than stock configurations are not allowed.

CARBURETOR

- Only one, four-barrel carburetor is allowed
- One Predator one-barrel carburetors are allowed
- No aftermarket fuel injector or parts are allowed
- Blowers, superchargers or turbochargers are not allowed
- Water vapor injection is not allowed
- N.O.S. nitrous oxygen systems are not allowed
- Alcohol or other exotic fuels is not allowed

HEADERS

- As specified in Combined Class Rules (CCR)

MUFFLERS

- As specified in Combined Class Rules (CCR)

IGNITION SYSTEMS

- A 6600 RPM limiting chip must be used and must be mounted outside the driver's reach

ENGINE COOLING

- As specified in Combined Class Rules (CCR)

DRIVE TRAIN

- Transfer case must be bolted to the back of the transmission as manufactured (i.e., same bolt holes)

TRANSMISSION

- Any combination of manufactured and/or aftermarket components are allowed
- Conventional drive system must be used
- No aftermarket under/over drive or viscous drive units are allowed
- All parts must be available at normal retail outlets

TIRES

- 33x12.5 D.O.T. legal tires or smaller, only.

WHEELS

- 16" rims or smaller, only