



CLASS 7S

Sportsman Mini or Mid-Sized Trucks/SUV

** Updated December 30th, 2019 **

DEFINITION

Vehicles built from a two (2) or four (4) wheel drive mini or mid-sized pickup/SUV. Vehicle must have been series produced in quantities of at least 5000 units within a 12-month period and be readily available to the general public in the U.S.A. Vehicle must be marketed as mini or mid-sized pickup/SUV.

GENERAL REGULATIONS

Entrants in this class shall comply with all applicable general regulations.

TECHNICAL REGULATIONS

Manufacturer's body and chassis combinations must be retained. Engine must be same manufacturer as body and chassis. This class is a stock production class and all components must remain stock except those modifications allowed herein. Front suspension is open.

***NOTE:** The TR abbreviations listed under this class (I.E. TR1 HELMETS) refer to TR cross reference listings in the front of this book. These TR cross-referenced listings are part of the class rules. Where a conflict occurs between the TR cross-referenced listing and a rule contained under this class, the rule contained under this class takes priority.*

SAFETY EQUIPMENT

TR1 HELMETS

TR2 PROTECTIVE CLOTHING

TR3 EYE PROTECTION and DENTURES

TR4 HEAD AND NECK RESTRAINTS

TR5 FIRST AID KIT

TR6 EMERGENCY SIGNALING DEVICES

TR7 HORNS

TR8 REFLECTORS

TR9 FIRE SUPPRESSION EQUIPMENT

TR10 SURVIVAL SUPPLIES

SUSPENSION COMPONENTS

Front Suspension

Front suspension must retain the original stock concept (AArm, MacPherson Strut, IBeam, etc.). Suspension support systems are open (leaf, coil, torsion bars, etc.). Front suspension

components may be modified, reinforced, or replaced. Front suspension pivot points are open. Pivot points may be modified, reinforced, replaced, and relocated. Spring buckets may be modified or removed. Frame notching for steering or spring clearance must be kept to a minimum and is subject to M400 approval.

Front and rear track width is open.

Rear Suspension

Rear suspension must utilize a straight axle differential housing. rear suspension is leaf spring only. Spring mounting is open as long as frame rules are followed. No rear frame modifications allowed. Rates and capacities of springs open. Two (2) single point antiwrap up bars or a single wishbone may be used on the rear differential.

Rear wheel travel limited to 18 inches maximum.

TR11 SHOCK ABSORBERS and BUMP STOPS

Shocks and location open. No remote mounted shocks.

Air shocks not allowed.

Bump stops open.

TR12 SECONDARY SUSPENSION

No secondary suspension.

TR13 WHEELS and TIRES

Wheels and wheel studs are open. Maximum tire size is 35 inches.

TR14 FASTENERS

STEERING and BRAKE COMPONENTS

TR15 STEERING

Steering box must remain stock as delivered from the manufacturer. Steering box mounting may be reinforced by adding material but must remain in the stock location.

Steering parts (tie rods, tie rods ends, idler arms, pitman arms, relay rods and turning arms) are open.

Steering column may be modified or replaced. Steering speeders or quicken boxes are open.

Any manufacturer's steering wheel may be used. Steering wheel must remain in stock location pulse or minus three(3.0) inches.

TR16 BRAKES

Open.

ELECTRICAL SYSTEM

TR17 IGNITION

Vehicles with a displacement of 3.0L or more must retain stock ECU. Programming is open.

TR18 BATTERIES

Battery and location is open.

TR19 LIGHTS

Lighting is open.

TR20 STARTERS

Open

FUEL SYSTEM

TR21 FUEL

TR22 FUEL TANKS

TR23 FUEL FILLERS LINES, VENTS, and CAPS

Fuel cell mandatory. Fuel cell may be sunk into bed. Rear cross member may be modified or replaced in order to sink fuel cell.

ENGINE, TRANSMISSION and DRIVELINES

TR24 ENGINE and ENGINE DISPLACEMENT

Engine may be one delivered in the vehicle by the manufacturer/importing distributor with a maximum of six (6) cylinders. Any other production engine of the same manufacturer/importing distributor may be used providing:

1. It retains a maximum of six (6) cylinders as originally produced by the manufacturer.
2. It retains the same number of camshafts.
3. It retains the same number of valves per cylinder.
4. It does not displace more than 4300cc.
5. It retains stock production block and heads.

Engine must remain stock as delivered by the manufacturer.

Engine must retain stock intake manifold, stock EFI, stock components(pistons, crank, rods, etc.).

Oil and water cooling are open radiator must remain in stock location. Air cleaners are open.

Fuel pumps are open. Exhaust systems are open.

Engine must be mounted in the stock location plus or minus one(1.0) inches. Engine location is measured from front spindle centerline to back of block. Height is measured top of frame to crank centerline.

Any stock production engine not displacing more than 2999cc and have more than six(6) cylinders may be used. As long as it meets the following requirements:

1. Engine block and heads have a stock factory part number.
2. Retains same number of valves as originally produced by the manufacture.
3. Is available to the general public in the U.S.A.

Any make of automotive carburetor(s) or fuel injection may be used maintaining a combined total of not more than one venturi per cylinder.

Items with no restrictions include:

- A. Strengthening and balancing
- B. Valve train and camshaft
- C. Pistons
- D. Blueprinting
- E. Oil and water-cooling systems, but radiator must remain in stock location.
- F. Air cleaners
- G. Fuel pumps
- H. Exhaust system

TR25 ENGINE REPLACEMENT

TR26 TRANSMISSION

Any manufacture OEM transmission allowed. No under/over drives allowed. Shifter open.

Differential

Front differential must retain original stock differential as delivered by the manufacturer.

Materials may be added for strengthening purposes only.

Rear axle housing is open, but must remain stock concept. Gear ratios, carriers, axles, and floating hubs are optional.

No knockoff hubs are allowed

TR27 THROTTLES

TR28 EXHAUST

TR29 DRIVE SHAFTS

TR30 FLYWHEEL SHIELDS

TR31 FLUID COOLERS

TR32 AUXILIARY EQUIPMENT

TR33 SUPERCHARGERS and TURBOCHARGERS

VEHICLE SAFETY EQUIPMENT

TR34 ROLL CAGES

TR35 SAFETY HARNESS

TR36 SAFETY NETS

TR37 SEATING

Race seats required. Seats must be in stock location plus or minus three(3) inches.

GENERAL VEHICLE COMPONENTS

TR38 DRIVERS COMPARTMENT

Open. Pedals must remain in stock location.

TR39 DOORS AND LATCHES

Doors must remain stock and operate on stock hinges as delivered from the manufacturer. Positive latching secondary door latches are required.

TR40 FIREWALLS

Stock firewalls must be retained as delivered from the manufacture. Holes allowing for the routing of fluid lines, electrical, and roll cage must be keep to a minimum. Holes must be drilled to minimize the area open around the item penetrating the firewall. Any holes not used in firewall must be sealed with metal.

TR41 BALLAST

TR42 WEIGHT

Vehicle dry weight is 3250 pounds minimum.

TR43 FLOORBOARDS

TR44 BUMPERS and HAZARDOUS PROTRUSIONS

Bumpers are open.

TR45 MIRRORS

TR46 SKID PLATES

TR47 STORAGE

TR48 CHASSIS and BODY

Body

Manufacturers specified chassis and body combination must be retained. Bodies may be updated but must remain the same series as the frame. Front and rear fenders, hoods, and rear bed sides are open but must remain in stock location. Front and rear fenders, hoods, and rear bedsides may be made of any material. Body must maintain the original shape, size, configuration and appearance. Additional mounts or parts for body strengthening may be

added. Body mounts may be modified. Mounting location (vertical, horizontal, lateral) in relation to frame and mounting method on frame must remain original stock. The measurement from the centerline of the front spindle to the back of the B Pillar post must retained stock ± 1 ". Tailgates and bed front bulkheads are optional. Stock grills are required. Safety glass windshields, side, and rear glass are optional.

Chassis

Manufacturers specified chassis and body combination must be retained. Original wheelbase must be maintained plus or minus two(2.0) inches. Frame must remain stock shape, size and configuration as delivered by the manufacturer. Material may be added for strengthening. Frame may not be lengthened or narrowed. Frame may be cut for front overhang clearance a maximum of eight(8.0) inches. Top of frame rail must remain stock.

TR49 HOSES

TR50 IDENTIFICATION MARKINGS

M400 will assign race numbers.

TR51 ADVERTISING on VEHICLES

TR52 RADIO EQUIPMENT

TR53 WORKMANSHIP

TR54 TRACKING DEVICE