



HYBRID PRODUCTION

Stock Production Hybrid Truck/SUV

** Updated September 7th, 2021 **

DEFINITION

Vehicles built from a full sized 2 or 4 wheel drive utility or SUV type vehicle. 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 full size. Vehicle must be currently produced within the last five(5) model years.

GENERAL REGULATIONS

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

TECHNICAL REGULATIONS

Manufacturer's body, motor, transmission, differentials, and chassis combinations must be retained. This class is a stock production class and all components must remain stock except those modifications allowed herein. No predating or postdating of any component allowed unless offered by the manufacture as a direct replacement part.

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 and rear suspension must be of the same manufacture, shape, size and configuration as originally produced and installed on the chassis to which it is mounted. All suspension

components will remain in the original stock locations and original stock mounting methods maintained. All components will be original manufacturer's design and must be stock as delivered from the manufacture. No material may be added. No reinforcement of stock pivot points.

A arms, I beams, and front axles must remain stock as delivered on the chassis to which it is mounted. Suspension parts must remain stock shape, size, and configuration as delivered from the manufacturer. Stock pivot points must be retained. Front and rear springs must remain in stock locations and retain original stock concept (leaf, coil, torsion). Rates and capacities of springs are open. Stock front and rear track must be retained plus or minus(+or-) one(1) inch.

TR11 SHOCK ABSORBERS and BUMP STOPS

One(1) shock per wheel, mounted in stock location as delivered by the manufacturer is allowed. Shock body limited to a 3.5 inch maximum diameter. Must be production shocks readily available to the general public only.

No air shocks allowed.

Stock production dump stops as installed by the manufacturer only.

TR12 SECONDARY SUSPENSION

Secondary suspension not allowed.

TR13 WHEELS and TIRES

Wheels and wheel studs may be of any manufacture.

TR14 FASTENERS

Fasteners must remain stock material. Any fastener may be upgraded with steel grade 8.

STEERING and BRAKE COMPONENTS

TR15 STEERING

Steering box must remain stock as delivered from the manufacturer. Steering box must be mounted in the stock location.

Steering parts (tie rods, tie rods ends, idler arms, pitman arms, relay rods and turning arms) must remain stock as delivered from the manufacturer.

Stock power steering pump as delivered by the manufacturer in the stock location only.

Any manufacturer's steering wheel may be used. Stock steering shaft may be replaced.

TR16 BRAKES

Turning or steering brakes are not allowed.

Brake calipers, rotors, master cylinders must remain stock as delivered by the manufacturer.

Brake pads are open.

ABS may be removed or disconnected.

Brake lines may be modified or replaced.

ELECTRICAL SYSTEM

TR17 ELECTRICAL

All electronics must remain stock. Wiring may be added for aftermarket components(lighting, radio, GPS, etc).

All high power lines must be encased for protection, lines and encasements must be painted red.

TR18 BATTERIES

Battery of any manufacture, but must remain in stock location.

TR19 LIGHTS

Stock head and tail lights must be retained in working condition at all times.

Rearward facing amber and blue lights are required.

Any manufacturer additional lights may be used.

FUEL SYSTEM

TR21 FUEL

TR22 FUEL TANKS

TR23 FUEL FILLERS LINES, VENTS, and CAPS

Fuel cell mandatory.

MOTOR, TRANSMISSION and DRIVELINES

TR24 MOTOR

Any motor delivered in, or offered as an option by the manufacture may be used.

Motor must remain stock as delivered by the manufacture.

Motor must remain in the stock location, using stock engine mounts.

TR25 ENGINE REPLACEMENT

TR26 TRANSMISSION

Transmission must remain as delivered by the manufacture or be a factory replacement for model year of the vehicle.

Any shifter may be used.

DIFFERENTIALS

Front and rear differentials must remain stock as delivered by the manufacturer. Gear ratios and carriers are open. Front and rear straight axle differentials may have material added for strengthening purposes only. IFS differentials (traction beam, etc.) may not

add material for any reason. IFS may use a bolt on skid plate to protect the front differential housing only. The skid plate may not reinforce the differential in any way.

TR27 THROTTLES

TR29 DRIVE SHAFTS

TR30 FLYWHEEL SHIELDS

TR31 FLUID COOLERS

TR32 AUXILIARY EQUIPMENT

VEHICLE SAFETY EQUIPMENT

TR34 ROLL CAGES

TR35 SAFETY HARNESS

TR36 SAFETY NETS

TR37 SEATING

GENERAL VEHICLE COMPONENTS

TR38 DRIVERS COMPARTMENT

Dash and related components must retain stock. Minimum size holes may be cut for roll cage installation.

Aftermarket gauges in any location may be used.

Air conditioning and heating units may be removed.

Door panels, headliners, visors, rear seats, and carpets may be removed. Stock pedals in the stock locations are required.

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.

Windows and roller assemblies must remain in their stock location.

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.

TR41 BALLAST

TR42 WEIGHT

Minimum weight must be retained. Minimum weight is curb weight as delivered and stated by the manufacturer.

TR43 FLOORBOARDS**TR44 BUMPERS and HAZARDOUS PROTRUSIONS**

Stock unmodified bumpers required.

Bush guards and lights may be attached to bumper.

TR45 MIRRORS**TR46 SKID PLATES****TR47 STORAGE****TR48 CHASSIS and BODY**

Manufacturer's body chassis combinations must be retained. No predating or updating chassis or bodies.

Fender openings must remain stock. Inner fender panels may be removed.

Frame must remain stock as delivered. No removal or adding of material.

Body must retain stock shape, size, appearance and configuration. Additional material or mounts for body strengthening is allowed. Mounting location (vertical, horizontal, and lateral) must remain stock in relationship to the frame and must retain stock mounting method. The measurement from the back of the b-pillar post to the centerline of the front spindle must remain stock.

Internal body structural members must remain intact. Holes may be placed for the placement of roll cage, fluid lines, or electrical.

Pickup bed floors must remain intact. Minimum size holes maybe cut for roll cage installation.

Hoods, trunk lids, doors, and bedsides must remain stock as delivered by the manufacturer.

Tailgates are optional. Hoods, fenders, and tailgates may be upgraded to the latest available update for that series of vehicle body and chassis combination.

Stock front grill and headlight assemblies are required.

Safety glass windshields, rear and side glass must be retained.

TR49 HOSES**TR50 IDENTIFICATION MARKINGS**

M400 will assign race numbers.

TR51 ADVERTISING on VEHICLES**TR52 RADIO EQUIPMENT****TR53 WORKMANSHIP****TR54 TRACKING DEVICE**