

# CLASS 7100

## MINI TRUCK CHALLENGE

### SPORTSMAN CLASS ONLY

#### MINI OR MID-SIZED TRUCKS / SUV

Vehicles built two or four-wheel drive mini or mid-sized pickups and suv. Vehicles must have been series Produced in quantities of at least 5000 units within a 12-month period. Vehicle must be readily available to the general public in the U.S.A. Vehicle must be marketed as a mini or mid-sized pickup or suv.

#### GENERAL REGULATIONS

Class entrants shall comply with all class and applicable general regulations.

#### COMPETITION REGULATIONS

Body and chassis combinations of vehicle manufacturer must be retained. This class is a stock Production class. Aftermarket and fabricated front suspension kits are allowed. All components must remain stock except those modifications listed herein.

**Note:** The SCR abbreviations refer to the cross-reference listings in the front of this book and are part of the class rules. Where a conflict between the cross-referenced listings and a rule contained under this class occurs, the rule contained under this class has precedence.

#### SAFETY EQUIPMENT

**SCR1: HELMETS**

**SCR2: PROTECTIVE CLOTHING**

**SCR3: EYE PROTECTION**

**SCR4: HEAD AND NECK RESTRAINTS**

**SCR5: FIRST AID KIT**

**SCR6: BREAKDOWN SAFETY DEVICES**

**SCR7: HORNS**

**SCR8: REFLECTORS**

**SCR9: FIRE EXTINGUISHER**

**SCR10: SURVIVAL SUPPLIES**

#### SUSPENSION COMPONENTS

Front suspension must be of the same configuration as originally produced. Suspensions may be strengthened and reinforced or fabricated in any manner so long as original stock concept (a-arm, I-beam, etc.) is retained. Lower A-Arms must retain stock pivot points but maybe reinforced. Upper A-Arm pivot points are open. NO J-Arms. I-Beams must mount in factory pivots in the stock location, pivots can be reinforced. Radius arms can be custom and are open on pivot point location. Pivots can be custom, reinforced and/or gusseted. Ball joints may be of any manufacturer. Spindles may be of any manufacture and may be reinforced. After market suspension kits and components are allowed. Pivot mounts may use spherical bearings in place of the stock rubber. Spring buckets maybe clearance to provide room for shocks and coil overs, only minimum frame material may be removed for the purpose of mounting shocks or clearance for steering. Front and rear track width is open.

Rear suspension must utilize an automotive style differential. Rear springs may be relocated to the side of the frame. Frame may not be modified or notched in any manner. Springs may be mounted above or below

the axle. Spring rates and capacities are open. Two single point rear differential anti-wrap bars or a single wishbone may be used.

Rear wheel travel limit is 18" axle to frame rail. Stock sway bars may be removed. All suspension components will and can be subject to the approval by **BITD**. Hydraulic bump stops are permitted. Air shocks are not permitted.

**SCR12: SECONDARY SUSPENSION****SCR13: WHEELS & TIRES**

Aftermarket wheel studs are permitted. 37" max tire size.

**SCR14: FASTENERS****STEERING & BRAKE COMPONENTS****SCR15: STEERING****SCR16: BRAKES****ELECTRICAL SYSTEM****SCR17: IGNITION**

Vehicles with 3000 - 4300cc engines must retain the vehicle manufacturers stock CPU / ECU computer and ignition as delivered by the factory. Programming is open. Except Chevy Colorado with 4.3 must remain stock programming.

**SCR18: BATTERIES**

Battery type and location is open.

**SCR19: LIGHTS**

Any manufacturer head light may be used.

**SCR20: STARTER****FUEL SYSTEM****SCR21: FUEL****SCR22: FUEL TANKS**

Safety fuel cells are required.

Fuel cell location is optional. Fuel cell may be sunk into the bed. The rear frame member may be relocated, removed or replaced in order to sink the fuel cell.

**SCR23: FUEL FILLER, VENTS & CAPS****ENGINE TRANSMISSION & DRIVELINES**

**SCR24: ENGINE LOCATION & DISPLACEMENT** Engine must be one delivered in the vehicle or one that is available from any manufacturer (with the provisions listed herein) from the manufacturer / importing distributor with a maximum of six cylinders. Engine must be available to the general public of the U.S.A. Maximum engine displacement is *Stock production 3000cc - 4300cc or modified 2999cc* and smaller (187.5ci). Rotary piston engines are not permitted. Water and vapor injection are not permitted. Engine location must be the stock mounting location as delivered from the manufacturer plus or minus 1-inch. Engine mounts are open. This will be measured from the front spindle centerline to the back of the block.

**Engine Rules**

Motor is limited to a maximum of 4.3L 6 cylinder.

Must be a production motor from any manufacturer in any chassis (i.e., Body and motor do not need to match) No High output motors permitted.

This Class has a 300 HP limit in stock form, anything over must be approved by **BITD**

**Restricted items:**

- A. Intake manifold. (Must remain stock vehicle manufacturers factory intake manifold)
- B. Fuel injectors
- C. Mass air flow sensor
- D. All internal components IE: pistons, cam, crank etc.
- E. Block and heads

**Unrestricted engine items include:**

- A. Oil and water-cooling systems. No Dry sumps.
- B. Air cleaners - open
- C. Fuel pumps - open
- D. Exhaust system – open
- E. CPU/ECU must be the same as delivered by the factory but programming is open except Chevy Colorado must remain delivered as by factory with 4.3 Motor

**CARBURETOR****2999cc engine rule**

Any make of carburetor or fuel injection may be used but must maintain a maximum of one venturi per cylinder.

**3000cc - 4300cc engine rule**

Stock production vehicle manufacturers factory fuel EFI must be maintained as delivered.

**SCR25: ENGINE REPLACEMENT****SCR26: TRANSMISSION**

Any OEM style transmission may be used T400, T350, C4, C6, etc. No underdrive allowed. Transmissions subject to the approval by **BITD** on a per vehicle basis. Any shifter may be used.

**DIFFERENTIAL**

Front differential must remain original stock as delivered by the manufacturer, with the exception of gear ratios. Materials may be added for strengthening purposes only. Front differentials, including traction beam type, may be reinforced.

Rear axle assembly must use standard automotive style. Housings are open. Gear ratios, carriers, axles and floating hubs are optional. No gear re-ducted rear ends allowed. Only a single ring and pinion rear end is allowed. Axles are limited to a maximum of an industry standard 40 spline 1.750" diameter axle.

Knock-off hubs are not permitted.

**SCR27: THROTTLES****SCR28: EXHAUST****SCR29: DRIVESHAFTS****SCR30: FLYWHEEL SHIELDS****SCR31: FLUID COOLERS****SCR32: AUXILIARY EQUIPMENT****SCR33: SUPERCHARGERS & TURBOCHARGERS****VEHICLE SAFETY EQUIPMENT****SCR34: ROLL CAGES****SCR35: SAFETY HARNESS****SCR36: SAFETY NETS****SCR37: SEATING**

Any manufacturer's racing seat may be used but must remain in the stock location.

**GENERAL VEHICLE COMPONENTS****SCR38: DRIVER'S COMPARTMENT**

Dash is optional. It is highly recommended that flammable items such as upholstered panels, headliners and carpets be removed.

Pedal assemblies must remain in the stock fore and aft position.

**SCR39: DOORS & LATCHES**

Doors must be full doors and must operate on stock hinges and latches. Must have a secondary latching device.

**SCR40: FIREWALLS**

Firewalls must remain stock, complete and in original location. Firewall clearance is permitted only to make room for transmission. Holes left in stock firewall must be covered with metal and sealed. Firewall may be modified for tire and shock clearance and replaced with sheet metal.

**SCR41: BALLAST****SCR42: WEIGHT**

Vehicle must weigh dry 3250 lbs. minimum.

**SCR43: FLOORBOARDS**

Alterations to floorboard, for the routing of exhaust to rear of vehicle, are permitted but floor must remain stock.

**SCR44: BUMPERS**

Bumpers may be modified. Stock bumpers not required.

Modification must meet with **BITD** approval.

**SCR45: MIRRORS****SCR46: SKID PLATES****SCR47: STORAGE****SCR48: FENDERS** Open**SCR49: CHASSIS & BODY**

Specified year chassis and cab combinations of manufacturer must be retained. Front fenders hood, grill and rear fenders open.

**CHASSIS**

Original wheelbase must be maintained plus or minus 1-inch.

Frame may be strengthened by addition of material but must retain stock configuration.

Lengthening or narrowing of frame is not permitted. Removal of material is not permitted.

Frames may not be altered. Frame rail exceptions:

A. The front end of the frame rail may be notched a maximum of 7 inches from the end for ground clearance. Top of frame rail must remain stock.

**BODY**

Original body shape, size, configuration and appearance must be maintained. Additional body strengthening mounts or parts may be added. Original stock mounting location (vertical, horizontal, and lateral) in relation to the frame and mounting methods must be retained. The measurement from the spindle centerline to the back of the b-pillar post must remain stock plus or minus 1-inch. Body mounts may be modified for tire clearance.

Internal body structural members may be removed. Clearance holes may be cut or drilled for rollbars, supports, shocks, etc.

Hoods, trunk-lids, doors fenders and bedsides are required to be in original stock locations.

Hoods, front fenders and bedsides may be of any material. Tailgates and pickup bed front panels are optional. Stock front grill assemblies are mandatory.

Safety glass windshields, side and rear glass is optional.

**SCR50: HOSES****SCR51: IDENTIFICATION MARKERS**

**BITD** will assign vehicle numbers.

**SCR52: ADVERTISING ON VEHICLES****SCR53: WORKMANSHIP****SCR54: RADIO EQUIPMENT**