



## 2024 Class Rules

# Minimum Safety Requirements (All Classes)

**1 piece race suit** – 2-layer SFI / FIA rated race suits must be worn.

**Helmet** – Must be Snell / FIA rated and in good condition.

**Head and Neck restraint** – “Donut” Style is a bare minimum accepted, we will be looking to phase these out in the next year and enforce the use of HANS devices.

**Eye Protection** – Safety glasses if wearing open face / helmet visor acceptable.

**Harnesses** – minimum of a 4pt harness in good condition ie no frayed fibres, clean and mounted securely. We recommend the use of 5pt or 6pt harnesses.

**Window Nets** – must not be able to get any limbs out of the gap while harnessed into the seats.

**Fire Extinguishers** – minimum of 2kg per vehicle.

### First Aid Kit

**Roll cage** – minimum of 6-point roll cage, mounted safely, in good condition with good welding and design. Gussets where required.

**Seats** - must use a race seat from a reputable manufacturer and be mounted securely using metal components only. NO plastic components allowed, even if originally supplied by the manufacturer.

**Roof** – all vehicles must have a roof over the occupant's head. Minimum of 1mm steel or 3mm alloy.

**Fuel** – securely mounted fuel tank, leak free and in good condition. Alloy tanks to be phased out end of 2024. We strongly encourage the use of plastic fuel cells / safety fuel cells for petrol vehicles.

**Kill Switch** – all vehicles require a kill switch that turns off the engine when in the “off” position. This must be easily reached by driver and co-driver.

**Breakdown Safety device** – All vehicles must carry a reflective breakdown “triangle” or equivalent.



## 2024 Class Rules

# Stock Class / 4600

### FRAME & BODY

- Stock frame (frame is considered to be the primary frame rails and all permanently factory cross members) must be retained and must be complete and unmodified.
- No material may be removed for any reason and no section of the frame may be 'massaged' or re-shaped with the following limitations and exceptions:
  - The rear portion of the frame and rear cross member may be removed or trimmed for the sole purpose installing an aftermarket rear bumper.
  - Frames may be reinforced by adding material.
- Stock body (body is considered to be the full cab, including all interior and exterior sheet metal, bed, doors, hood, fenders, grill, etc.) required. The body must be complete and unmodified, with the following limitations and exceptions:
  - Holes may be cut in any part of the body for allowing roll cage tubes and transmission/transfer case linkage to pass-through the body.
  - Holes may be cut in the firewall, grill and core support exclusively for roll cage.
  - Open holes must be kept to within 12.5mm of the diameter of any tube or linkage that passes through the body. The exception to this rule is the allowance for rocker panel protection limited to the area between the wheel wells. You may cut into the body and/or reinforce this area. You may not interfere with the mating surface of the stock door and doorsill. The stock doorsill must be retained and unaltered.
- Stock doors may be modified to create half-doors and/or may also be replaced with tubular doors. Doors must open and close, bolted on panels are not allowed.
- Stock windows (glass) are not required, but are permitted, providing they meet DOT regulations. Alternatives to traditional safety-glass may be allowed, on approval of Chief Technical Inspector.
- Front inner fenders must be complete and unmodified, unless specifically required by the 6-point occupants safety roll cage only and does not include allowances for auxiliary tubes, with the following limitations and exceptions:
  - Outer fenders (wheel well openings) may be trimmed for the single and exclusive purpose of allowing for tyre clearance.
  - Modifications to the outer fenders must preserve the look of the stock wheel

wells, as originally manufactured, and must not be trimmed excessively (no more than a 2" (50mm) gap between any part of the outer fender and the tyre at full compression)

- Front outer fenders may be replaced with OEM-style aftermarket fenders (flared fiberglass fenders are permitted).
- Rear inner and outer fenders must be complete and unmodified, unless specifically required by the 6-point occupants safety roll cage only and does not include allowances for auxiliary tubes, with the following limitations and exceptions:
  - Outer fenders (wheel well openings) may be trimmed for the single and exclusive purpose of allowing for tyre clearance.
  - Modifications to the outer fenders must preserve the look of the stock wheel wells, as originally manufactured, and must not be trimmed excessively (no more than a 2" (50mm) gap between any part of the outer fender and the tyre at full compression).
- Extensive damage to any portion of the frame or body (prior to race start) may be considered illegal modifications, and repairs may be required, as determined by, and at the sole discretion of the Chief Technical Inspector.
- Stock body mounts may be modified or eliminated, with the following limitations and exceptions:
  - The relationship of the body to the frame must remain within 1" (25mm) of stock configuration, as originally manufactured.
  - Stock body mounts shall not be modified or eliminated for any reason other than to allow any part of the roll cage to pass through the body in order to be securely attached to the chassis.
- Factory headlights are required and must be functional.
- Factory bumpers are not required and may be modified or eliminated.

## **ENGINE**

- Stock engine must be retained but may be replaced with any available in same make/model/year. Any and all modifications are permitted, with the following limitations and exceptions:
  - Stock engine-block must be retained, as originally manufactured (boring, stroking and other internal engine modifications are all permitted).
  - Forced-induction of all types is not permitted, unless factory-equipped.
- If equipped with a water-cooled engine, the radiator size and type is free but must remain within 6" (150mm) of the original location, as originally manufactured.
- The heater core may be deleted or relocated, if relocated it must utilize OEM inlet and outlets. Oil coolers, transmission coolers and radiators located in front of the vehicle occupants must have a shroud that, in the event of a rupture or leak, will prevent liquids from blowing back or leaking onto the occupants. All hoses running through the passenger compartment must be shielded. Steel braided hoses do not constitute a shield.

## **TRANSMISSION**

- Stock transmission must be retained but may be replaced with any available in same make/model/year. Any and all modifications are permitted, with the following limitations and exceptions:

- Stock transmission case/s must be retained, as originally manufactured.
- Auxiliary transmissions (e. g. secondary transmissions, under / over- drives, etc.) are not permitted.

## **TRANSFER-CASE**

- Any and all transfer-cases are permitted, providing they meet all the additional rules and regulations specified herein.

## **DRIVESHAFTS**

- Any and all driveshafts are permitted, providing they meet all the additional rules and regulations specified herein.

## **AXLES**

- Any and all axle assemblies are permitted, providing they meet all the additional rules and regulations specified herein.

## **STEERING**

- Steering components may be modified or eliminated and steering components/ linkage may be installed in any location and orientation, with the following limitations and exceptions:
  - All vehicles must retain some type of mechanical steering linkage (e. g. 'full-hydro' steering is not permitted, unless factory-equipped), and said linkage must be capable of controlling the direction of the steering wheels/tyres without the benefit of any additional power-steering aids.
  - The steering box (or rack, if so equipped) must remain within 4" (100mm) of the stock location.
  - No part of the steering linkage shall be oriented so as to be partially or substantially parallel to the frame rails or any part of the suspension linkage, with the exception of the draglink and track-bar (if so-equipped, and unless otherwise- equipped, as originally manufactured).
  - Rear-steer is not permitted.

## **SUSPENSION**

- Wheelbase must remain within 3" (75mm) of stock, as originally manufactured.
- Suspension configuration must remain stock, as originally manufactured meaning that leaf springs must remain leaf springs, coil springs must remain as coil springs, torsion-bars must remain as torsion-bars, etc. This includes suspension and axle type, such that solid axle to remain a solid axle, TTB to remain TTB, A-Arm to remain A-Arm, etc. This includes but is not limited to strut, swing axle, sliding pillar, multi-link, semi-trailing arm, and swing arms.
- Leaf springs may be replaced with any leaf springs and may be installed in any location and orientation, with the following limitations and exceptions:
  - Leaf springs must be connected directly to the axle assembly, unless otherwise factory equipped.
  - Links/linkage may be installed, but the leaf springs must be capable of locating

the axle assembly relative to the chassis in any direction without the use of any such links/linkage. As such, quarter-elliptical springs, transverse leaf springs, and the use of double-shackles (at the forward and rear leaf spring mounting points at the chassis) are not permitted, unless factory-equipped.

- Coil-springs and related suspension linkage may be modified or eliminated and replaced with any coil-springs and linkage, and may be installed in any location and orientation, with the following limitations and exceptions:
  - Coil- springs must be connected directly to the axle assembly and chassis and shall not be mounted in any way so as to yield any type of mechanical advantage, unless factory-equipped.
  - Coil- springs shall not be replaced with any type of coil-over shocks, unless factory- equipped (if so-equipped, factory coil-over shocks may be replaced with aftermarket coil-over shocks).
- Secondary suspension is not permitted, unless factory-equipped (secondary suspension is considered to be any means or method of supporting any portion of a vehicle's weight and/or affecting the primary spring-rate at any time). As such, springs of all types and airbags, are not permitted.
- Air/nitrogen-charged hydraulic bump stops, compressible bump stops made of rubber, foam, or other similar materials are permitted, with the following limitations and exceptions:
  - Bump stops shall not have any action whatsoever on any aspect of a vehicle's performance outside of the last 2" (50mm) of vertical wheel-travel (on compression).
- Shock absorbers of any make/model/type are permitted and may be installed in any location and orientation, with the following limitations and exceptions:
  - Only one shock absorber is permitted per wheel/tyre (not including spare tyres). Vehicles originally equipped with multiple shocks per wheel may run the same number of shocks as originally supplied by the manufacturer in the same locations. It will be up to competitor to verify OEM fitment of multiple shocks on their vehicle.
  - Shock absorbers shall not be larger than 2.65" (67mm) in diameter (outer diameter of shock-body) and shall not be capable of any more than 14" (355.6mm) stroke. Position-sensitive shocks (including bypass shocks of all types) are not permitted.
  - Shock absorbers must be connected directly to the axle assembly and chassis and shall not be mounted in any way so as to yield any type of mechanical advantage, unless factory-equipped (mounting shock absorbers off-vertical is permitted and shall not be considered a mechanical advantage).
- Manual suspension controls (e.g., forced hydraulics) are not permitted.

## **TYRES**

- Tyres must be DOT-approved, with a maximum outside diameter of 35" (or equivalent), as specified on the tyre's sidewall by the original manufacturer.

## **SHARK FIN NUMBERS**

- Shark Fin numbers must be 7" (175mm) tall with 1" (25mm) brush stroke in Arial Narrow font only. Front facing and rear facing numbers must be 6" (150mm) tall.
- 4600 Class: Black numbers, PMS 2707 C (light blue) background.