



# CAPE HELL DRIVERS MOTOR CLUB

## KAAPSE JAAGDUIWELS MOTORKLUB

### REGULATIONS AND SPECIFICATIONS FOR THE 2017 - 2018 SEASON CHD OVAL TAR CLUB CHAMPIONSHIP

Addition to WC Circular 52 / 2017 (Issued 23 November 2017)

#### APPENDIX G - 16V MIDGET CLASS

The general rule of what is not specifically allowed is not permitted applies.

#### **G 1. GENERAL SAFETY**

- 1.1 Non-contact racing class: no deliberate contact, bumping or shunting will be permitted.
- 1.2 Ensure that all joints in construction of the car and rollcage are welded properly.
- 1.3 Sump, gearbox and differential plugs are to be wired securely.
- 1.4 Fitment of coil spring retainers, preventing the spring from falling free or getting dislodged, is mandatory.
- 1.5 The retainer shall be constructed of a minimum of 2mm steel cable.
- 1.6 Minimum weight of the car (excluding driver) is 550kg.

#### **G 2. BRAKES**

- 2.1 **NO** ABS brakes or any other electronic driving aids permitted.
- 2.2 Braking mechanism on at least three wheels are mandatory.

#### **G 3. CAR CONSTRUCTION**

- 3.1 Roll Cage:
  - 3.1.1 There will be a minimum clearance of 50mm between the driver's helmet and any part of the roll cage.
  - 3.1.2 Pipe of minimum 30mm in diameter with a wall thickness of 2mm to be used for construction of the roll cage.
  - 3.1.3 The roll cage must enclose the driver with a minimum of 4 down pipes and 2 cross braces.
  - 3.1.4 The chassis to be constructed of a minimum of 30mm tubular metal with a minimum wall thickness of 2mm.
  - 3.1.5 The use of chrome molly tubing is not permitted.
  - 3.1.6 It is optional for the cross bar (X) to be inserted above the driver's head.
- 3.2 Nerf Bars:
  - 3.2.1 Must be fitted to both sides of the vehicle, bar size minimum of 30mm x 2mm.





# CAPE HELL DRIVERS MOTOR CLUB

## KAAPSE JAAGDUIWELS MOTORKLUB

- 3.2.2 Must be bolted on as per diagram using minimum 6mm and maximum 8mm bolts.
- 3.2.3 Must be designed to protect the full width of the rear tyre of the vehicle.
- 3.2.4 May not protrude more than 50mm beyond the rear wheel of the vehicle.
  
- 3.3 Front Bumpers:
  - 3.3.1 Compulsory and must be constructed of pipe with a maximum measurement of 30mm x 2mm.
  - 3.3.2 May not protrude beyond the width of the chassis at the front, neither may they protrude more than 150mm beyond a line drawn immediately in front of the 2 front tyres – a tolerance of 50mm shall be allowed.
  - 3.3.3 Alloy bumpers and sissy bars allowed 38x3.
  
- 3.4 Rear Bumpers / Push Bars:
  - 3.4.1 Maximum diameter of 30mm x 2mm is mandatory.
  - 3.4.2 The mid bumper or push bar height shall be between 250mm and 400mm above the ground.
  - 3.4.3 To be designed that they do not protrude more than 100mm from the nearest body component.
  - 3.4.4 Mounting points may not exceed the width of the chassis at the rear.
  - 3.4.5 The rear vertical element of the bumper shall mount to a solid point on the vehicle or the other vertical elements.
  - 3.4.6 The nose cone and tailpiece to be constructed to all safety measures.

### **G 4. ENGINE**

- 4.1 Only engines with more than 5000 units sold in the world will be allowed and only standard production engines may be used.
- 4.2 Three or four cylinder 4 stroke piston driver 8 valve single cam engines, overhead valve or overhead cam permitted.
- 4.3 Maximum volume 2000cc plus 60thou.
- 4.4 Engines may be solid mounted.
- 4.5 Aftermarket fuel management systems permitted.
- 4.6 Air cleaners are free.
- 4.7 Carburation: maximum 45mm side draughts and maximum 38mm choke tubes.
- 4.8 16V Standard Unit:
  - 4.8.1 Limited to a maximum of 2000cc plus 60thou.
  - 4.8.2 After market engine management systems are permitted.
  - 4.8.3 Only standard road going throttle bodies will be permitted.
  - 4.8.4 Intake manifold may be altered to accommodate frame construction but throttle body to remain standard.





# CAPE HELL DRIVERS MOTOR CLUB

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- 4.8.5 The exhaust manifold may be replaced with a branch.
- 4.9 No turbo or superchargers or any form of forced induction is allowed.
- 4.10 Removal of alternators or charging systems is allowed.
- 4.11 No motorcycle engines permitted.

### **G 5. EXHAUSTS**

- 5.1 All piping to be secured with saddles, preventing exhaust pipes from coming loose in the event of breaking off.
- 5.2 Exhaust tail pipes shall only pass through the back of the vehicle.
- 5.3 Maximum decibels of 105 measured at 0.5 meters away at 4500rpm.

### **G 6. FUEL, FUEL MANAGEMENT AND CARBURETION**

- 6.1 Fuel enhancements free.
- 6.2 8 Valves – methanol permitted only if the Midget is committed to the 16V class and races full time in the class.
- 6.3 16 Valve – only pump fuel permitted.

### **G 7. STEERING AND SUSPENSION**

- 7.1 Only solid axles permitted.
- 7.2 Independent suspensions are prohibited.
- 7.3 Front axle shall be a solid axle type, no wishbone system shall be permitted.
- 7.4 Steering mechanism shall be free, with the exception of motorbike handle bars will not be permitted.
- 7.5 Spring adjustments are permitted.
- 7.6 Only freely available, over the counter shock absorbers, i.e. Armstrong, Monroe and Gabriel shall be permitted. It follows that no competition shocks will be allowed, only standard shocks.
- 7.7 Gas shocks permitted within this range.

### **G 8. TRANSMISSION**

- 8.1 Only live axle differentials are permitted.
- 8.2 Gearboxes open
- 8.3 Torque tube not permitted.
- 8.4 No quick change differential permitted.
- 8.5 Torque arm permitted.
- 8.6 No clutches permitted.





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### G 9. WHEELS AND TYRES

- 9.1 Tyre size maximum 15" width 205mm – inscription must read 205mm.
- 9.2 American Racers 225 x 10" x 13" only allowed for the front.
- 9.3 Normal road tyres allowed.
- 9.4 Tyres must be freely available from any tyre dealer.
- 9.5 Tyres may not bear the inscription of "not for highway use".
- 9.6 Under NO circumstances may any names or sizes be buffed off from the tyre walls.
- 9.7 All tyres have to be presented at scrutineering.

### G 10. WINGS

- 10.1 May not be wider than the tyre width and / or maximum 1300mm x 1300mm
- 10.2 End plates, maximum size 750mm x 1.7m
- 10.3 In other words, wings are not permitted to be wider than the rear track of the vehicle measuring from the left to the right rear tyres, no overhang will be permitted.
- 10.4 All wings to be mounted with a minimum of 10mm bolts.
- 10.5 Nose wing shall not exceed 610mm x 610mm
- 10.6 Nose wing end plates shall be a maximum of 610mm x 300mm (height).

