



FORMULA C TECHNICAL REGULATIONS 2025

Please read these regulations in conjunction with the Retro Kart Championship Sporting Regulations and 2025 Noise Regulations

1. Chassis

- 1.1. Chassis must have been homologated for the Formula C or ICC categories prior to 31 December 1999
- 1.2. Chassis must be 2 pedal setup.
- 1.3. Non-Homologated chassis will be treated on an individual basis and must meet the requirements laid out in these regulations.
- 1.4. Removal/adding of any part of the chassis is not permitted, Example: removing/adding a bearing hanger.
- 1.5. Chassis which are re-homologated after 1999 are not permitted.
- 1.6. Seat post modification is permitted to accommodate gear linkage.

2. Bodywork, Bumpers & Pedals

- 2.1. Bodywork is Mandatory (Nassau, Nose cone and Sidepods).
- 2.2. Bodywork must be period in style up to and including CIK 02.
- 2.3. Front and rear bumpers are Mandatory and must be metal (magnetic).
- 2.4. Full width rear bumpers are Mandatory and must cover 50% of the width of the tyre.
- 2.5. Rear bumper pencil bars are Mandatory. (See Appendix)
- 2.6. Rear bumper must not protrude past the outside edge of the wheel (regardless of dry/wet setup).
- 2.7. Pedals must not exceed the front bumper.
- 2.8. Throttle pedal must be fitted with a return spring.

3. Steering & Front Geometry

- 3.1. The front stub axle's maximum diameter is 17mm.
- 3.2. Castor/camber kits are permitted but must be in keeping with the karts age.
- 3.3. Sliding hubs are permitted providing the hub does not exceed 40mm diameter. (See Appendix)
- 3.4. Maximum width must not exceed 1220mm. (See Appendix)
- 3.5. Ackerman steering is permitted.
- 3.6. All styles of Steering wheels are permitted.
- 3.7. CNC stub axles are permitted.
- 3.8. Steering column safety collar must be fitted below top column bush.

4. Rear Axle

- 4.1. Maximum rear axle diameter must not exceed 40mm.
- 4.2. Axle stiffeners are not permitted.
- 4.3. Maximum width must not exceed 1400mm. (See Appendix)
- 4.4. Offset bearing carriers are not permitted.
- 4.5. Rear hubs with an overall length (excluding wheel studs) of less than 60mm must not exceed the ends of the rear axle.

5. Brakes

- 5.1. Brakes must be hydraulic.
- 5.2. Brakes must be effective on all 4 wheels.
- 5.3. Self-adjusting brakes are permitted.
- 5.4. Maximum of 2 pistons per pad.
- 5.5. Brake discs must be steel or cast iron, floating discs are permitted.

- 5.6. Front hubs must be period in style.
- 5.7. Brake safety cable is Mandatory, and the cable must be a minimum of 2mm thickness.

6. Wheels & Tyres

- 6.1. Maximum diameter of wheel is 5" with a maximum width of 212mm.
- 6.2. Wheels must be one piece.
- 6.3. Aluminium or Magnesium rims are permitted.
- 6.4. The only tyres permitted are as follows: -
 - 6.4.1. Dry – Maxxis Sport.
 - 6.4.2. Wet – Maxxis Green SLW.
- 6.5. 1 set of dry tyres per event, you will need to register the barcodes with the scrutineer.
- 6.6. In case of dry tyre failure (eg puncture) you must report immediately to the scrutineer and the decision of a replacement tyre may be permitted.
- 6.7. Mixing of wet and dry tyres is not permitted.
- 6.8. Electrical equipment for warming tyres is not permitted.
- 6.9. Chemical applications to the tyres are not permitted.

7. Seat

- 7.1. Seat must be free of damage and support the driver.
- 7.2. Seats must be securely fitted by a minimum of 4 bolts of at least 8mm diameter and must have washers between the seat and all seat fixings, steel washer or plastic washer is permitted. Washer dimensions a minimum of 1.5mm thick, 40mm diameter.
- 7.3. A maximum of two additional seat stays per side are permitted.

8. Engine

- 8.1. Engine must have been homologated for the Formula C or ICC categories prior to 31 December 1999. Additional engines are permitted as used previously in UK period prior to 31 December 1999
 - 8.1.1. Any Non-listed Engines please contact the Technical Scrutineer.
 - 8.1.2. Any form of VO (Variant Options) and/or Extensions to original homologations are not permitted
- 8.2. Engine cubic capacity must not exceed 125cc.
- 8.3. Engines must be water cooled.
- 8.4. Engines must be single cylinder.
- 8.5. Engine must be externally as manufactured/originally first homologated. (See Appendix)
- 8.6. Maximum gears: 6.
- 8.7. Tuning is open.
- 8.8. Power valves are not permitted.

9. Ignition

- 9.1. Ignition must meet the following criteria: (See Appendix)
 - 9.1.1. Must be Analogue, consisting maximum of 3 components. Coil, Stator, Rotor
 - 9.1.2. Digital or programmable ignition systems are not permitted.
 - 9.1.3. The use of ignition advance/retard boxes are not permitted.

10. Intake

- 10.1. Flat slide, Round slide or Butterfly carburettors are permitted.
- 10.2. Maximum venturi 39mm at any point measured across the horizontal plane. (See Appendix)
- 10.3. The use of power jet systems are not permitted.
- 10.4. A CIK style Airbox is mandatory, no modifications allowed (eg additional holes) (See Appendix).
 - 10.4.1. Airbox must be sealed to the carburettor mouth.
 - 10.4.2. Airbox must contain a Foam Filter / Intake Silencer. (See Appendix)
 - 10.4.3. The Foam must be intact and complete with no rips tears or sections missing, all air entering the carburettor must pass through the foam filter/ intake silencer.
- 10.5. Maximum of 2 trumpets in airbox.
- 10.6. Maximum diameter of trumpets no greater than 30mm. (See Appendix)

11. Exhaust

- 11.1. The exhaust system must discharge behind the Driver and must not exceed a height of 45cm.
- 11.2. Exhaust must be contained within the perimeter of the kart.

11.3. Rear exit exhausts must have a 180° link pipe between expansion pipe and silencer/muffler. (See Appendix).

11.3.1. Link pipe must be a gas tight fit

11.4. Silencer/mufflers must be fitted parallel to the rear axle. (See Appendix)

11.5. The exhaust gas exit point, the internal diameter must be no greater than 38mm. (See Appendix)

12. Noise

12.1. Intake and Exhaust silencing is mandatory

12.2. Competitors must ensure that engines are prepared and equipped in order to meet or better sound level requirements.

12.3. Please refer to the RKC Noise Regulations for guidance to ensure the best possible steps are made to ensure compliance is met.

13. Miscellaneous

13.1. Karts must use Yellow number plates with Black numbers, numbers to be visible front, rear and both sides

13.2. Magnesium components are permitted

13.3. Carbon components are permitted

13.4. Chain guards must be securely fastened and cover the length of the chain

13.5. Datalogging is permitted (including GPS)


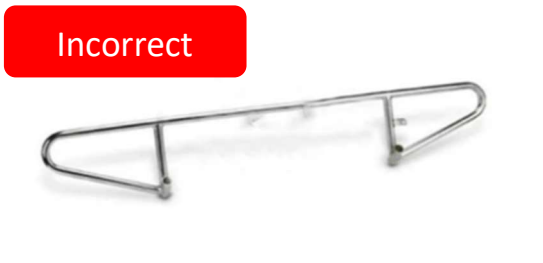
14. Weights

14.1. Minimum weight for kart and driver is as follows: -

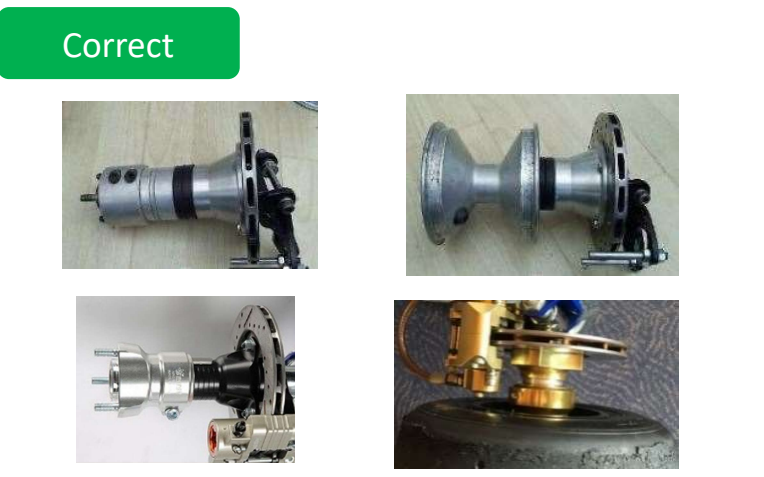
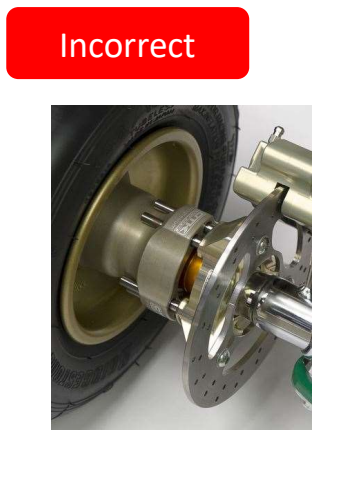
14.1.1. Formula C - 175Kgs

Appendix A

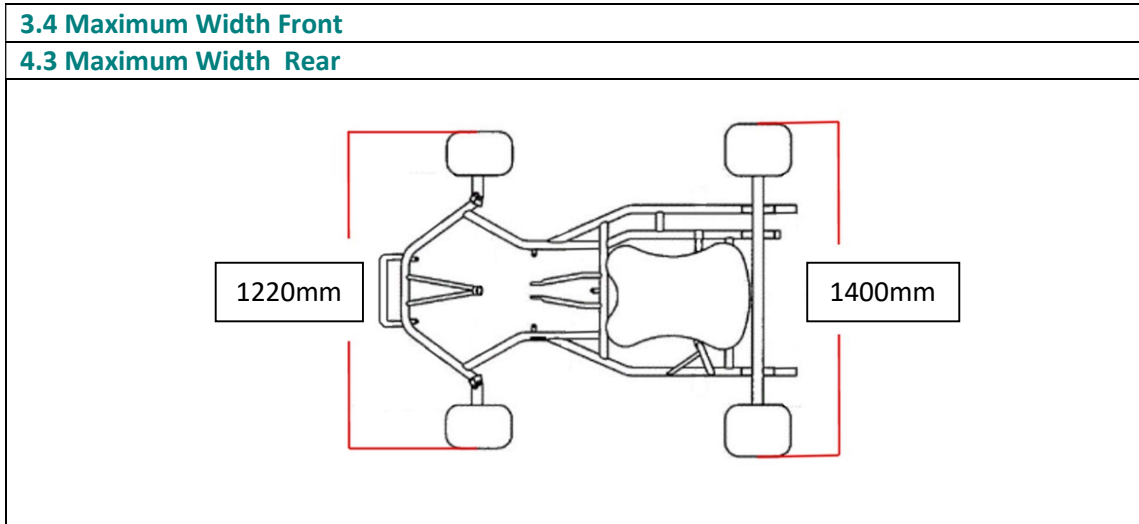
2 Bodywork, Bumpers ad Pedals

2.6 Rear Bumper	
 <p>Correct</p>	 <p>Incorrect</p>
Lower pencil bar must be permanently fitted (eg bolted,welded)	

3 Front Geometry





3.3 Sliding hubs	
 <p>Correct</p>	 <p>Incorrect</p>
Examples of Sliding hubs	

3 and 4 Front and Rear Geometry




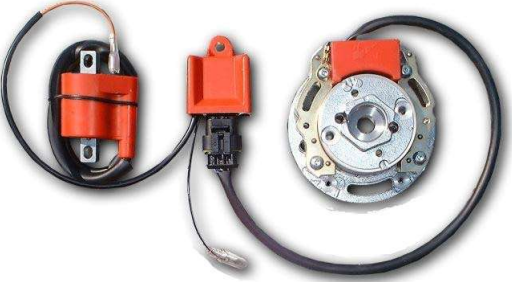
8 Engine

Note:

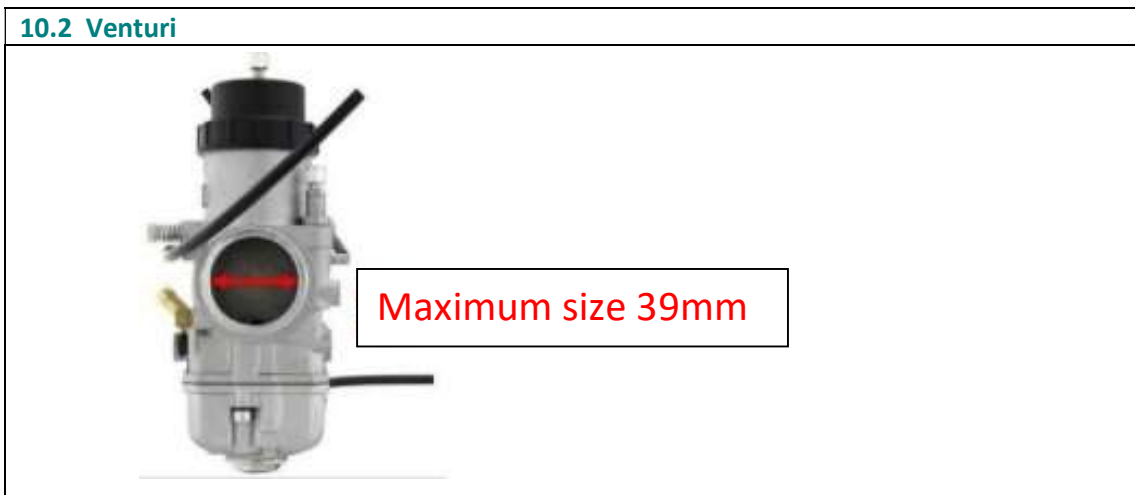
8.5 Engine External		
Example of possible incorrect cylinder fitted to TM K8 & TM KV95		
Correct 	Incorrect 	
Example of possible incorrect cylinder fitted to SGM F196 & SGM L198		
Correct 	Incorrect 	

cylinders can be interchanged from rotary to reed and vice-versa

9 Ignition

Correct	Incorrect
	
3 Components Rotor, Stator, Coil	4 Components Rotor, Stator, Coil, Box

10 Intake



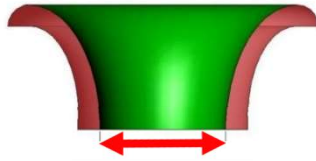
10.4.2 Foam Filter Types

Correct



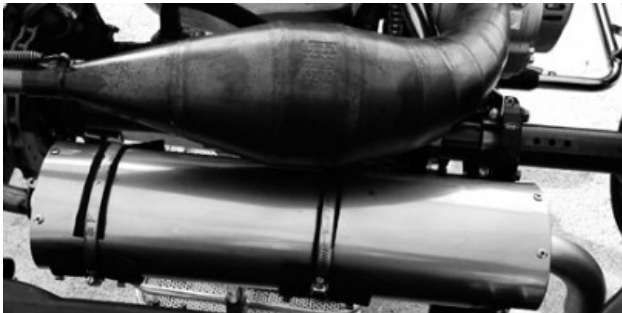
10.6 Intake Trumpet

Maximum size 30mm



11 Exhaust

11 Exhaust



Outlet tube



Maximum Internal Diameter: 38mm