



2021

## MSA National Standing Supplementary Regulations

### Kid ROK Category Specific Regulations



Version 2

20 April 2021

Ref: 162456

## REVIEW AND AMENDMENTS

Motorsport South Africa (MSA) will periodically review these rules and will present the revised version to all members for agreement to publish the updated version.

Amendments and updates to the rules will be recorded in the Amendment Record, detailing the updated version, date of approval of the amendment and a short summary of the amendment.

## AMENDMENT RECORD

<i>Modified SSR / ART</i>	<i>Date applicable</i>	<i>Date of Publication</i>	<i>Clarifications</i>
2.2	Immediate effect	20.04.2021	Wording deleted and added
3.6	Immediate effect	20.04.2021	Wording deleted
4.1 & 4.2	Immediate effect	20.04.2021	Wording added
4.3, 4.4 & 4.5	Immediate effect	20.04.2021	Wording deleted
4.6	Immediate effect	20.04.2021	Wording deleted and added
4.7	Immediate effect	20.04.2021	Wording deleted
4.11	Immediate effect	20.04.2021	Wording deleted and added
4.12	Immediate effect	20.04.2021	Wording added
4.13	Immediate effect	20.04.2021	Wording deleted and added

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## 1. GENERAL

These Regulations are to serve as guidance in regards to technical compliance of the competition equipment used for participation and the running of the particular competition.

## 2. DEFINITIONS

- 2.1 Chassis – complete kart as supplied from the registered importer excluding the engine.
- 2.2 Engine – complete power unit as supplied by the importer including exhaust, carburettor, and air box, battery, battery box and. Excludes wiring harness.

## 3. CHASSIS

- 3.1 **Only chassis permitted as per MSA Karting Handbook section 23.1 and 25 section vi**
- 3.2 **Chassis is to be raced as supplied by the OEM**
- 3.3 **Axles**
  - 3.3.1 Axle diameter (not allowed to be changed) – Maximum External diameter = 30mm
  - 3.3.2 Minimum axle wall thickness = 4.9mm at all points except the key housings
  - 3.3.3 Axle Length = 960mm +/- 10mm
  - 3.3.4 Axle Mass = 2900g +/- 100g.
  - 3.3.5 The rear axle used on the chassis does not have to come from the same manufacturer as the chassis itself.
  - 3.3.6 Maximum rear width including rims and tires fitted = 110 cm
- 3.4 **Rims**
  - 3.4.1 The permitted width of rims shall be:
    - a) Front Maximum 11.5 cm
    - b) Rear Maximum 15.0cm Minimum 13.0cm
  - 3.4.2 Rims used does not have to come from the same manufacturer as the chassis itself.
  - 3.4.3 The maximum diameter of rims shall not exceed 5 inches (126mm)
- 3.5 **Tyres**
  - 3.5.1 The use of any sort of any artificial heating devise to pre-heat tyres, or tyre treatment, including the use of heat guns is strictly forbidden for removal of access rubber.
  - 3.5.2 The organizers reserve the right to replace one or more of any competitor's tyres, with a substitute tyre, should they believe such action to be warranted.
- ~~3.6 **Sprockets**~~
  - ~~3.6.1 Front sprocket = T10.~~
  - ~~3.6.2 Only rear sprockets permitted is:~~
    - ~~a) T86: Celso Scribante, East London, Idube~~
    - ~~b) T83: Formula K, Killarney, Vereeniging, Zwartkops~~

## 4. ENGINE

- 4.1 **The only engine permitted is as per the equipment homologated for the class with MSA which must be sealed by the Technical Consultant and/or Scrutineer.**

**NOTE: It is the responsibility of the competitor to ensure that the Technical Consultant/Scrutineer has sealed his/her engine before taking part in qualifying/heat/race**

- 4.2 No type or form of modifications is allowed to the engine or any other parts **except those detailed in article 4.13.** This includes fuel supply, carburettor, ignition, etc.
- 4.3 **Reserved.** Minimum allowable combustion volume = Refer to technical specification sheet
- 4.4 **Reserved.** In the case that the sealing of engines will be declared for the event, before qualifying every competitor must have their engines sealed by the Technical Consultant.

- 4.5 ~~Reserved. In the case that sealing of engines is not declared, conventional marking of engines will be done after qualifying.~~
- 4.6 Unless ~~stated~~ otherwise ~~stated~~ each driver will be allowed to use two engines per race. Both engines MUST be sealed at ~~the relevant~~ sporting checks or in any case before qualifying ~~and/or race/s.~~
- 4.7 ~~Reserved. Both engines need to be presented for scrutineering.~~
- 4.8 When a competitor elects to use his/her second engine during competition the first engine used must be handed in at Parc Ferme to the Technical Consultant prior to the start of the competitor's next race.  
**Note: Engines handed in to the Technical Consultant will be subject to technical checks.**
- 4.9 The use of a fuel return line is not permitted for all competitions. No break allowed in fuel line between tank to fuel pump except for the fitting of a fuel filter.
- 4.10 No exhaust or cylinder temperature measuring devices allowed to be used during competition.
- 4.11 Competitors ~~need to must~~ ensure that clutches and clutch drums are free from oil, grease or any other lubricants.
- 4.12 Refer to the ~~relevant~~ engine ~~and carburettor~~ specification sheets for technical specifications and carburation.
- 4.13 ~~Spark Plug: The only plug allowed is a NGK B10EG.~~

ITEM	SPECIFICATION
SPARK PLUG CAP	W420/2 (ROK) OR TB05EM (NGK)
SPARK PLUGS	NGK B9EG OR B10EG
SQUISH	2.65mm Minimum
CC'S CYLINDER HEAD ONLY	ROK PROFILE GAUGE
HEAD GASKET	2.0mm ± 0.1
SHIMS	As Required
EXHAUST PORT DURATION	As per Mini ROK Specification
TRANSFERS	As per Mini ROK Specification
INLET	As per Mini ROK Specification
IGNITION TIMING	Free
EXHAUST MANIFOLD	As per Mini ROK specification with a 16MM exhaust restrictor - NO GO specification: 16.10mm
CARBURETTOR	Dellorto PHBG 18BS
MAIN JET	Dellorto 87 NO GO specification: 0.85mm
EMULSION TUBE	Dellorto AN266 As per 2021 Mini ROK Carburettor Specification
NEEDLE	Dellorto W23 As per 2021 Mini ROK Carburettor Specification
NEEDLE CLIP POSITION	2 <sup>nd</sup> Groove from the top of the needle As per 2021 Mini ROK Carburettor Specification
NEEDLE AND SEAT	As per 2021 Mini ROK Carburettor Specification
CHOKE JET	As per 2021 Mini ROK Carburettor Specification
PILOT JET (IDLE JET)	As per 2021 Mini ROK Carburettor Specification
SLIDE	Dellorto 40 As per 2021 Mini ROK Carburettor Specification
FLOATS	Dellorto 4.0 grams As per 2021 Mini ROK Carburettor Specification

ITEM (Continued)	SPECIFICATION (Continued)
SPROCKETS REAR	Choice of 83, 84, 85 or 86 Tooth
ENGINE SPROCKET	10 Tooth
ALL OTHER SPECIFICATIONS	As per Mini ROK CIK-FIA Homologation Form