

MACAU INTERNATIONAL KART GRAND PRIX WITH IAME ASIA FINAL 2025

TECHNICAL REGULATIONS v1.1, 040925

NAME OF EVENT: Macau International Kart Grand Prix with IAME Asia Final 2025

ORGANISER: Automobile General Association Macao-China (AAMC)

PROMOTER: Kineqx Ptd Ltd

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1. GENERAL INFORMATION

- 1.1. Classification and Definition: As per Article 1 and Article 2 of the CIK-FIA Technical Regulations
- 1.2. General Prescriptions: As per Article 3 of the CIK-FIA Technical Regulations
- 1.3. Kart and Equipment Safety: As per Article 4 and Article 7 of the CIK-FIA Technical Regulations
- 1.4. General Prescriptions for Group 2 Karts: Article 9 of the CIK-FIA Technical Regulations
- 1.5. General Prescriptions for Group 3 Karts: As per Article 10 of the CIK-FIA Technical Regulations.

2. INITIAL SCRUTINEERING AND INSPECTIONS

- 2.1. Initial Scrutineering will be carried out as per the time indicated on the Official Programme and is mandatory. Drivers may be required to provide the relevant homologation forms for the equipment submitted. It must be possible to identify the equipment submitted using the technical descriptions (drawings, dimensions, etc.) on the relevant homologation form.
- 2.2. The Scrutineers have the right to inspect, impound, or replace the equipment submitted for Initial Scrutineering at any time during the Event, regardless of whether the equipment has been used.
- 2.2.1. Impounded equipment remains subject to the Supplementary Technical Regulations and may undergo further inspection.
- 2.2.2. Equipment may be inspected to the point that it can no longer be used. In such cases, equipment found to be in conformity will be replaced at no cost. Non-conforming equipment will not be replaced.
- 2.2.3. The engine homologation forms are the main reference material for Scrutineers. In case of any doubt, a comparison with the sample engine or accessories will be the definitive element establishing conformity.
- 2.3. In any moment, the Technical Officials have the right to replace any part, any accessory or even the entire engine. IAME Asia, while guaranteeing the efficiency and operation of the supplied material, will in no case be held liable for any malfunction occurring as a result of the replacement.
- 2.4. Controls can be carried on engines, in race conditions, at any time of the Event.
- 2.5. The Scrutineers may decree the delivery of an engine or part thereof to the manufacturer IAME S.p.A. for an official inspection and judgement. Any costs incurred shall be borne by the Driver in the event of nonconformity.

3. ELIGIBLE EQUIPMENT

3.1. Each Driver is entitled to submit, per category entered, the following equipment during Initial Scrutineering for his mandatory personal use in the relevant category beginning from Official Practice.

Cotogomi	Chassis		Engines	
Category	Qty	Remarks	Qty	Remarks
Cadet	1	Any valid homologation with homologation plate presented	2	Of the correct model for the Driver's category.
Other		Valid CIK-FIA homologation	1	

3.2. If damage occurs to a chassis or an engine previously submitted for Initial Scrutineering, and if it is the opinion of the Scrutineers that the damage was the result of an accident and that it is impractical for such damage to be repaired in time, one alternative engine of the correct model or chassis of the same make may be scrutinized, at the discretion of the Stewards and Scrutineers.



4. MINIMUM WEIGHT

Category	Minimum Weight (kg)
Cadet	110
Junior	145
Senior	158
Master	165

- 4.1. All karts and drivers will be weighed during Scrutineering and after Time Trials, all Heats, and the Final. Karts that do not cross the Finish Line at the end of a race may not be required to be weighed.
- 4.1.1. With reference to Article 4.16 of the CIKFIA Karting Technical Regulations, the mass of a kart may be adjusted with one or more solid blocks attached to the chassis frame, to a chassis auxiliary part (except bumpers) or the seat. Maximum mass of a single ballast: 5kg. Combined ballasts on the same attachment count as a single ballast. Ballast must be attached by means of tools with at least two bolts: 0-2.5 kg of a minimum diameter of 6 mm, >2.5-5 kg of a minimum diameter of 8 mm.

5. DIMENSIONS, BODYWORK, REAR WHEEL PROTECTION

5.1. With reference to Article 9.1.1, Article 9.5.5 and Article 10.1.1 of the CIK-FIA Technical Regulations:

Category	Maximum Width (cm)	Minimum Width (cm)	Additional Requirement	
	Overall Kart	Rear Wheel Protection		
Cadet	110	-	The rear wheel protection must at no time protrude	
Other	140	134	beyond the external plane of the rear wheels.	

- 5.2. <u>This article is an addition to Article 5 of the Technical Regulations.</u>
- 5.3. Dimensions for Group 2 and Group 3 Karts: As per Article 9.1 and Article 10.1 of the CIK-FIA Technical Regulations.
- 5.4. Bodywork for Group 2 and Group 3 Karts: As per Article 9.5 and Article 10.5 of the CIK-FIA Technical Regulations.
- 5.5. Rear Wheel Protection for Group 2 and Group 3 Karts: As per Article 9.5.5 and Article 10.5.5 of the CIK-FIA Technical Regulations.

6. FRONT BRAKES

6.1. Front brakes are not allowed.

7. FRONT FAIRING MOUNTING KIT

7.1. The use of a homologated front fairing and mounting kit as per the bodywork homologation period 2021-2025 is mandatory.

7.2.

Clearance Between	Minimum (mm)
Top and bottom front bumper tubes, measured between the front fairing mounting brackets	60
Front bumper (upper and lower tubes) and the front fairing (CIK Technical Drawing No. 2.2)	27

- 7.3. From Qualifying until the Final, each kart must enter the Start Servicing Park with the front fairing fully detached. The Mechanic or the Driver himself must mount the front fairing in the Start Servicing Park under the supervision of a Scrutineer.
- 7.4. During each Race it is only allowed to restore the front fairing to the correct position in the Repair Area.
- 7.5. The black flag with an orange disc will not be shown to Drivers with front fairings in an incorrect position.

8. SPORT ACTION CAMERAS

8.1. Sport action cameras are not allowed from the Time Trial session onwards.

9. REAR SHAFT

- 9.1. The rear shaft must be as homologated by CIK and identifiable as such.
- 9.2. With reference to Article 4.3 of the CIK-FIA Technical Regulations:



- 9.2.1. The rear shaft The rear shaft (axle) for the Cadet categories must have a maximum external diameter of 30mm and a minimum wall thickness at all points (except in key housings) as per Article 4.3 of the CIK-FIA Technical Regulations.
- 9.2.2. The rear shaft (axle) for other categories must have a maximum external diameter of 50mm and a minimum wall thickness at all points (except in key housings) as per Article 4.3 of the CIK-FIA Technical Regulations.

10. BATTERY AND BATTERY HOLDER

- 10.1. Lithium polymer batteries are allowed.
- 10.2. Non-original battery holders are allowed.

11. CADET CATEGORY - WHEELS, RIMS, SEAT STAYS

- 11.1. Front hubs are allowed in the Cadet Category.
- 11.2. Magnesium wheels are allowed in the Cadet Category.
- 11.3. Seat stays are allowed in the Cadet Category.

12. TYRES

- 12.1. There will be no impounding of tyres.
- 12.2. Only Komet tyres may be used beginning from Free Practice.
- 12.3. Each Driver must submit the following unused "Race Tyres" during Tyres Registration, to be mandatorily used in the Qualifying, Heats, Super Heats, and Final. Race Tyres may not be used in Free Practice, Official Practice, and Warm Up. If a Wet Race is to be declared on the Saturday of the Event, an additional Race Tyre Registration session for the registration of an additional set of wet tyres will be scheduled on the following Sunday morning before the start of the on-track activities.
- 12.4. Defective Race Tyres may be submitted to the Scrutineers for substitution at their discretion.

12.5.

	Dry	Wet
Category	Quantity: 2 sets Must be purchased in the form of vouchers and exchanged during Tyres Registration.	Quantity: 2 sets (1st set is mandatory, 2nd set is optional) Driver's own stock is accepted (unused).
Cadet	Komet K1D-M Front Size: 10 x 4.00-5, Rear Size: 11 x 5.00-5	Komet K1D-W Front Size: 10 x 4.00-5, Rear Size: 11 x 5.00-5
Other	Komet K3M Front size: 10 x 4.60-5, Rear Size: 11 x 7.10-5	Komet K3W Front size: 10 x 4.20-5, Rear size: 11 x 6.00-5



12.6. Running in of Wet Tyres

Running in of wet tyres on a dry track is prohibited.

- 12.7. <u>Modification of Tyres</u>
- 12.7.1. Any modification, heating, cooling, remoulding, or treating of the tyres by any method is forbidden.
- 12.7.2. The measuring device MiniRAE Lite shall be used to determine conformity with the Technical Regulations. The VOC measurement of the tyres may not exceed a maximum ppm limiting value of 15 under any circumstances. Pollution of the tyres, e.g. by chain spray, must be avoided as it may result in the limiting value being exceeded.
- 12.7.3. Should a check at the Start Servicing Park establish nonconformity with the Technical Regulations, the nonconforming tyres will be confiscated. No additional tyres will be provided or sold to the Driver in such cases.
- 12.7.4. Should a check carried out after a Race establish nonconformity with the Technical Regulations, the Driver may be excluded from the relevant Race.
- 12.7.5. No Protests and Appeals against these procedures are allowed.

13. PETROL AND OIL

- 13.1. The requirements specified in these Regulations are intended to ensure the use of fuels predominantly composed of compounds normally found in commercial fuel, and to forbid the use of specific power-boosting chemical compounds.
- 13.2. There will be no impounding of fuel.
- 13.3. Official Pump

Only petrol purchased from the Official Pump is authorised for use in the Event. It will be each competitor's responsibility to purchase their own petrol from the Official Pump designated in the Additional Supplementary Regulations.

- 13.4. <u>Petrol Details</u>
- 13.4.1. It is forbidden to add any liquids, power-boosting chemicals, racing fuels, or additives into the petrol.
- 13.4.2. The oil mixture ratio for the Cadet categories shall be 3% to 5%.
- 13.4.3. The oil mixture ratio for all other categories shall be 4% to 6%.
- 13.4.4. The volume of the fuel in the tank must be over or equal to 1.5 litres at all times.
- 13.5. <u>Scrutineering of Petrol</u>
- 13.5.1. Petrol will be scrutineered against a sample obtained from the Official Pump.
- 13.5.2. Evaluation of petrol will be made with one or more of the following tests or devices: Digatron Fuel Meter test, Specific Gravity Test, and Water Solubility Test.
- 13.5.3. If a non-conformity is ascertained, further tests may be conducted at the cost of the Entrant/Driver.
- 13.5.4. The Scrutineers have the right to replace a driver's petrol at any time during the Event, at no cost to the Driver.
- 13.6. The official oil for the Event (CIK-FIA approved semi-synthetic 2-stroke oil) is the Wladoil Racing K-2T, though other Homologated Oils are also allowed.

14. ENGINES - GENERAL REGULATIONS

Category	Engine	Homologation Forms
Cadet	IAME X30 Water Swift 60cc	364I IAME X30 Water Swift 60cc with Tillotson HW-31A
Junior	IAME X30 125cc	254Z IAME X30 125cc with Tillotson HW-27A
Senior	IAME X30 125cc	254Z IAME X30 125cc with Tillotson HW-27A
Master	IAME X30 125cc	254Z IAME X30 125cc with Tillotson HW-27A



- 14.1. The Driver is liable for the conformity of his equipment.
- 14.2. Only engines bearing markings from the Asian Zone is accepted. The markings are SEA, SGP, MY, RL, 17, PRC, JPN, IDN, etc. All engines must be accompanied by an Engine Identification Card. Engines with SN: 000001 onwards which are not registered in the IAME Asia's database which have been purchased from within Asia must have a proof of purchase.
- 14.3. Engines must be provided with their original serial number.
- 14.4. Engines must be in original condition and strictly in compliance with the manufacturer's technical form (technical features, sizes, weights, diagrams with the tolerances prescribed by the manufacturer).
- 14.5. The relevant homologation forms, available on the Website, are an integral part of these Supplementary Regulations.
- 14.6. Tuning, improvement, modification, installation, adjunction, polishing, sandblasting, trimming, adjustment, heat treatment, surface treatment, addition or removal of material, or action having as a consequence the alteration of a dimension, aspect, or control possibility, to or of the original engine or accessories is forbidden unless expressly authorised.
- 14.7. Engines and parts thereof have to be installed in their original positions and functioning according to their original design specifications.
- 14.8. The tolerances reported on the engine homologation forms are necessary in comprising all machining, assembly and settling tolerances. Nevertheless, no intervention is allowed on the engine, regardless of whether the modified dimensions remain within prescribed tolerances.
- 14.9. The maximum and minimum allowed values and volume of the combustion chamber shall be measured according to the CIK Technical Regulations.

15. IAME X30 WATERSWIFT 60CC

- 15.1. <u>Diagrams and Volume Chart</u>
- 15.1.1. As per homologation form.
- 15.2. <u>Cylinder Head</u>
- 15.2.1. The cylinder head must be original.
- 15.2.2. The sparkplug body tightened on the cylinder head must not protrude from the upper part of the combustion chamber dome.
- 15.2.3. The squish must be in compliance with the homologation form. The tin wire (minimum 50% tin) used for the squish measurement must have a 1.5mm diameter. Measurements must be taken with the engine in racing conditions at any time during the Event.
- 15.2.4. The original IAME gauge n. 10215 is the reference to measure the cylinder head profile conformity. The gauge shape must match with the dome profile, squish area and gasket plane.
- 15.3. <u>Cylinder</u>
- 15.3.1. The cylinder must be original.
- 15.3.2. Only re-boring is allowed.
- 15.3.3. In case of doubt, the shape and height of the transfers shall be compared to a cylinder from the sample engine.
- 15.3.4. A diagram adjustment is allowed only by means of a cylinder gasket replacement. The number of cylinder base gaskets is not limited. Only original gaskets are allowed.
- 15.3.5. No head gasket is admitted.
- 15.3.6. The original IAME gauge n. ATT-005 is the reference to measure the distance of the upper edge of the ports from the cylinder head plane.
- 15.4. <u>Crankcase, Crankshaft, Con-rod, Crankpin</u>
- 15.4.1. Parts must be original and without any modification. Only the original big end cage (IAME B-10431), original washers (IAME E-38436) and original small end cage (IAME A-60440) are allowed.
- 15.4.2. Original oil seals and mounted as original, the hollow side must face inside the crankcase.
- 15.5. Bearings
- 15.5.1. Only original crankshaft ball bearings (IAME p.n. 10400-D 6204 C4, ORS, 6204 TN9/C4, SKF) are allowed.
- 15.5.2. Ball-bearings with oblique/angular contacts are forbidden.
- 15.5.3. Only bearings with steel balls and rings are allowed. Ceramic is forbidden.
- 15.5.4. Bearings without correct and clear visible classification number as described in the regulations are expressly prohibited.
- 15.5.5. The bearings must be fitted with the balls visible from inside the housing.
- 15.5.6. All internal engine parts must be original from the Manufacturer.
- 15.6. <u>Piston, Ring and Pin</u>
- 15.6.1. Strictly original without any modification and in compliance with the homologation form.
- 15.7. <u>Carburettor</u>
- 15.7.1. Only the Tillotson HW-31A carburettor supplied together with the engine in its original configuration (same brand, same model, same reference) is admitted. Only the accessories supplied together with the original carburettor and represented on the homologation forms are allowed; needle valve spring is free.



- 15.7.2. Carburettor positioning (i.e. with pump in upper or in lower position) is free. All carburettor spacers and gaskets are mandatory and must be in compliance and in the same order as indicated on the technical form.
- 15.7.3. The inlet silencer must be original as supplied with the engine (same brand, same model, and same reference IAME mod. MINI SWIFT with CSAI 01/SA/14 homologation) with max 23mm internal diameter intake tubes. Protective grids are optional.
- 15.7.4. The rubber manifold with air filter connecting the inlet silencer to the carburettor is mandatory and must be installed and in compliance with the homologation form.
- 15.7.5. The sponge filter element, if used, must be intact.
- 15.7.6. Any injection and/or spraying system is forbidden.
- 15.8. Clutch
- 15.8.1. The engine is supplied with a dry centrifugal clutch system. Any intervention intended to extend the sliding of the clutch hub beyond the prescribed limit is forbidden.
- 15.8.2. The centrifugal clutch must engage at max. 4,500 RPM moving the kart with driver on board and in racing conditions. The clutch must be completely triggered at max. 6,500 RPM in any condition. This measurement can eventually be checked with proper instruments. The driver is responsible for the wear status of the clutch padding material and cleaning of the friction parts. Proper operation of the clutch might be checked at any time during the event or after each phase.
- 15.9. <u>Ignition</u>
- 15.9.1. Only original Selettra ignition (p.n. IAME-61951) and coil (p.n. IAME A-61955) without modification are allowed.
- 15.9.2. The battery must be fixed to the chassis and connected to the ignition system at all times.
- 15.10. Sparkplug
- 15.10.1. Only the following NGK sparkplugs, strictly original and without any modification, are allowed: B8EG B10EG, BR8EG BR10EG, BR8EIX BR10EIX, BR8ECMIX BR10ECMIX, B8ES B10ES, B8EGV B10EGV.
- 15.10.2. The sparkplug must be installed with its original gasket.
- 15.10.3. The insulator must not exceed the sparkplug body and the length of the sparkplug body itself must be max. 18.5 mm. (CIK technical regulations appendix 7).
- 15.10.4. The sparkplug cap must be original as delivered with the engine (IAME p.n. 10544 / IAME p.n. 10543).
- 15.11. <u>Exhaust</u>
- 15.11.1. Only the original muffler and header as supplied with the engine are allowed and must be kept in compliance with the homologation form, therefore no modification in structure or dimensions is allowed.
- 15.11.2. The use of an exhaust temperature sensor is allowed
- 15.11.3. The complete sealing of the exhaust gas between the cylinder and the exhaust manifold must be guaranteed at all times. The control of the sealing of the exhaust gas can be performed at any time through occlusion of the outlet hole of the exhaust header, filling of the exhaust header with liquid through the exhaust port and checking for leaks. The proper sealing of the exhaust system is the Driver's responsibility.
- 15.11.4. The exhaust manifold (Ø28.5mm) must be strictly original and in compliance with the technical form. Only one original exhaust gasket is allowed.
- 15.12. Cooling
- 15.12.1. The cooling system must be in its original configuration. Only one IAME original radiator (p.n. T-8601) is allowed. Only one simple water pump of any make is allowed. The number of radiator support brackets is not limited. Only simple or bypass IAME original thermostats are allowed and their use is optional. Only water with no additives is allowed for cooling. Radiator shields, either adhesive or mechanical are allowed but should not be removable when the kart is in motion. Water pump pulley through the Orings is mandatory. Type of O-rings is free. Water pump pulley is free.
- 15.13. Starting
- 15.13.1. The engine is provided with an on-board electric starter. The original on-board starting system must be installed and properly connected with all components.
- 15.13.2. The use of an external starter is authorized only in the event that a mechanical or electrical problem prevents the operation of the starting system.
- 15.13.3. Starter motor is free.
- 15.14. Sprockets
- 15.14.1. Only IAME original Z10 or Z11 sprockets are admitted.
- 15.14.2. Rear sprocket allowed is open. Type 219. The ratio is free.
- 15.14.3. Vampire rear sprocket Type 219 are prohibited.



16. IAME X30 125CC RL TaG - X30

16.8.1.

and carbon fibre petals is forbidden.

16. IAIVIE	: X30 125CC RL TaG - X30
16.1.	Diagrams and Volume Chart
16.1.1.	As per homologation form.
16.2.	<u>Cylinder Head</u>
16.2.1.	The cylinder head must be original.
16.2.2.	Only thread repairing by means of an M14x1.25 helicoil of the same length as the original thread is allowed.
16.2.3.	The sparkplug body tightened on the cylinder head must not protrude from the upper part of the combustion chamber dome.
16.2.4.	The squish must be in compliance with the homologation form. The tin wire (minimum 50% tin) used for the squish measurement must have a 1.5mm diameter. Measurements must be taken with the engine in racing conditions at any time during the Event.
16.2.5.	The original IAME gauge n. ATT-025/1 is the reference to measure the cylinder head profile conformity. The gauge shape must match with the dome profile, squish area and gasket plane.
16.2.6.	The CIK insert body tightened on the cylinder head must not protrude from the upper part of the combustion chamber dome.
16.3.	<u>Cylinder</u>
16.3.1.	The cylinder must be original.
16.3.2.	Only re-boring is allowed.
16.3.3.	In case of doubt, the shape and height of the transfers shall be compared to a cylinder from the sample engine.
16.3.4.	A diagram adjustment is allowed only by means of a cylinder gasket replacement. The number of cylinder gaskets is not limited. Cylinder gaskets must be original.
16.3.5.	No head gasket is admitted.
16.3.6.	The original IAME gauge n. ATT-025/2 is the reference to measure the cylinder ports position.
16.3.7.	The original IAME gauge n. ATT-035/1 is the reference for a visual check of the ports.
16.4.	Crankcase, Crankshaft, Con-rod, Crankpin
16.4.1.	Parts must be original and without any modification. Only the original big end cage (X30125431), original washers (X30125436/X301255437) and original small end cage (E-10440/E-10441) are allowed.
16.4.2.	The original IAME gauge ATT-035/3 is the reference to check the reed block housing plane.
16.4.3.	The original IAME gauge ATT-035/4 is the reference to check the distance between the indexing pins of the cylinder.
16.4.4.	The original IAME gauge ATT-035/5 is the reference to check the height of the cylinder base plane.
16.5.	<u>Bearings</u>
16.5.1.	Steel and plastic cages are allowed.
16.5.2.	Only original crankshaft ball bearings (6206, C4) and SKF roller bearings (BC1-3342 B) and counter balancing shaft ball bearings (6202, C3/C4/C4H and 6005, C3 or C4) with steel ball bearings and polyamide cage are allowed.
16.5.3.	Ball bearings with oblique contacts are forbidden.
16.5.4.	Only bearings with steel balls and rings are allowed. Ceramic is forbidden.
16.5.5.	Bearings without correct and clear visible classification number as described in the regulations are expressly prohibited.
16.5.6.	The use of spacers behind the bearings is allowed for correct axial play.
16.5.7.	All internal engine parts must be original from the Manufacturer, in factory conditions.
16.6.	<u>Piston, Ring and Pin</u>
16.6.1.	Strictly original without any modification and in compliance with the homologation form.
16.6.2.	The IAME original gauge ATT-035/2 is the reference to check the piston head shape.
16.7.	Reed Block
16.7.1.	Must be strictly original without modification. No gasket planes machining is allowed. Free screws. Only original reed valve cover without modification is allowed.
16.7.2.	Reed block/crankcase gasket thickness is 1mm (admitted tolerance +/- 0.3mm).
16.7.3.	Conveyor/reed block gasket thickness is 0.8mm (admitted tolerance +/- 0.3mm).
16.8.	Reed Petals
4004	

Only fibreglass (min. 0.3mm) or carbon fibre (min 0.24mm) original IAME marked reed petals are allowed. Mixing of fibreglass



- 16.9. Carburettor
- 16.9.1. Only the Tillotson HW-27A carburettor supplied together with the engine in its original configuration (same brand, same model, same reference) is admitted. Only the accessories supplied together with the original carburettor and represented on the homologation forms are allowed; needle valve spring is free.
- 16.9.2. Carburettor positioning (i.e. with pump in upper or in lower position) is free. Carburettor gasket thickness is 1 mm (admitted tolerance +/- 0.3mm).
- 16.9.3. The inlet silencer (X30125740) must be original as supplied with the engine (same brand, same model, and same reference) with max 23mm internal diameter intake tubes. Protective grids are optional.
- 16.9.4. The rubber manifold with air filter connecting the inlet silencer to the carburettor is mandatory and must be installed and in compliance with the homologation form.
- 16.9.5. Any injection and/or spraying system is forbidden.
- 16.9.6. The original IAME gauge n. ATT-035/2 is the reference to check the carburettor inlet duct. The gauge shape must match with the inlet profile.
- 16.10. <u>Clutch</u>
- 16.10.1. The centrifugal clutch must engage at max. 4,000 RPM moving the kart with driver on board and in racing conditions. The clutch must be completely triggered at max. 6,000 RPM in any condition. This measurement can eventually be checked with proper instruments. The driver is responsible for the wear status of the clutch padding material and cleaning of the friction parts. Proper operation of the clutch might be checked at any time during the event or after each phase.
- 16.10.2. The original IAME gauge ATT-047/4 is the reference to check the clutch drum. The tool must not enter into the clutch drum in a perpendicular position respective to the clutch drum axis.
- 16.11. <u>Ignition</u>
- 16.11.1. Only original Selettra Digital K or S ignition systems without modification are allowed.
- 16.11.2. Only the electronic CDI box type C (16000 RPM) is allowed and must be fixed on the chassis or engine. The markings on the electronic box are compulsory and must be clearly visible without disassembly. Obscuring of the markings is forbidden.
- 16.11.3. Modifications to the stator fixing, shape and thickness of the rotor key, and rotor and crankshaft slots are forbidden.
- 16.11.4. The battery must be fixed to the chassis and connected to the ignition system at all times.
- 16.11.5. The IAME original gauge ATT-035/7 is the reference to check the correct position of the phase reference marking on the rotor.
- 16.12. Sparkplug
- 16.12.1. Only the following NGK sparkplugs, strictly original and without any modification, are allowed: B8EG B10EG, BR8EG BR10EG, BR8EIX BR10EIX, BR8ECMIX BR10ECMIX, B8ES B10ES, B8EGV B10EGV.
- 16.12.2. The sparkplug must be installed with its original gasket.
- 16.12.3. The insulator must not exceed the sparkplug body and the length of the sparkplug body itself must be max. 18.5 mm. (CIK technical regulations appendix 7).
- 16.12.4. The authorised spark plug caps are PVL 401 222 / Selettra 6000721001 5Kohm, (IAME ref. 10544) or NGK TB05EMA (IAME ref 10543).
- 16.13. <u>Exhaust</u>
- 16.13.1. Only the original muffler and header as supplied with the engine are allowed and must be kept in compliance with the homologation form, therefore no modification in structure or dimensions is allowed. Only the Junior exhaust manifold with the restrictor of 22.7mm is allowed, in compliance with the homologation form.
- 16.13.2. Drilling and welding operations on the header are allowed only for the installation of a temperature probe.
- 16.13.3. The complete sealing of the exhaust gas between the cylinder and the exhaust header must be guaranteed at all times. The control of the sealing of the exhaust gas can be performed at any time through occlusion of the outlet hole of the exhaust manifold, filling of the exhaust manifold with liquid through the exhaust port and checking for leaks. The proper sealing of the exhaust system is at Driver's responsibility.
- 16.13.4. One original gasket only between cylinder and exhaust manifold is allowed, the use of the original exhaust spacer (X30125375) is allowed and not mandatory.
- 16.13.5. Exhaust manifold reference: ATT-035/9
- 16.14. <u>Differential Reading Between Exhaust and Transfers</u>
- 16.14.1. Checks will be conducted as follows: Install the graduated disc or encoder onto the crankshaft. Insert the feeler gauge (wedge) 0.2 x 5mm at the centre of the exhaust port. Rotate the crankshaft clockwise (seen from clutch side) and take the piston ring in contact with the feeler gauge. Set the graduated disc or encoder to zero. Rotate the crankshaft counter clockwise to lower the piston until the transfer ports are open. Insert the feeler gauge into one of the transfer ports. Rotate the crankshaft clockwise and take the piston ring in contact with the feeler gauge. Check the disc or encoder reading. To be legal it must be minimum 24° and maximum 25°.



16.15. <u>Cooling</u>

16.15.1. The cooling system must be in its original configuration. Only one IAME original radiator (p.n. T-8000B or T-8001) is allowed. Only one simple water pump of any make is allowed. The number of radiator support brackets is not limited. Only simple or bypass IAME original thermostats are allowed and their use is optional. Only water with no additives is allowed for cooling. Radiator shields, either adhesive or mechanical are allowed but should not be removable when the kart is in motion. Water pump pulley through the O-rings is mandatory. Type of O-rings is free. Water pump pulley is free.

16.16. Starting

- 16.16.1. The engine is provided with an on-board electric starter. The original on-board starting system must be installed and properly connected with all components.
- 16.16.2. Starter motor is free.
- 16.16.3. The use of an external starter is authorized only in the event that a mechanical or electrical problem prevents the operation of the starting system.

16.17. Sprockets

- 16.17.1. Only IAME original Z10, Z11, Z12 and Z13 sprockets are admitted.
- 16.17.2. Rear sprocket allowed is open. Type 219. The ratio is free.
- 16.17.3. Vampire rear sprocket Type 219 are prohibited.