



Year 2016

## Easykart Barbados TECHNICAL Regulations.

Class: EasyKart 100: Junior

Bushy Park Circuit Inc otherwise to be known as Easykart BARBADOS in these technical regulations. Registered address – Bushy Park, St Phillip, Barbados. EasyKart Barbados will be the sole importer of new Easykarts. Karts imported otherwise, will require certification through EasyKart Barbados.

### Introduction:

EASYKART is a one make chassis and engine category for an economic level entry to karting

The Class currently runs successfully worldwide in the UK, ITALY, S AMERICA, POLAND, RUSSIA, VENEZUELA and BARBADOS.

### Specific Equipment :

1.0 The only Karts eligible for competition will be Easykart/ IAME model 100cc certified by Easykart BARBADOS. Karts and engines will be registered with Easykart BARBADOS at the point of purchase and registered on the Easykart BARBADOS/Easykart UK database.

### Chassis

2.0 Single make EasyKart chassis manufactured by Birel ART, Italy and must conform to the original manufacturers specification at all times. Each chassis and engine combination number is registered on a database at point of purchase with Easykart Importer.

The Easykart scrutineer reserves the right to seal the chassis frame at any point during an event.

Only one chassis/engine is permitted per class, however if a chassis incurs damage during an Easykart event, if there is not enough time for Easykart to perform a repair at a cost, or if the Easykart scrutineer deems the chassis unusable, then subject to availability, Easykart can provide a complete Easykart for hire. The competitor can then use the replacement Easykart for the remainder of the event having confirmed the loan Easykart details with the Easykart scrutineer.

3.0 CHASSIS MODIFICATIONS ALLOWED: Unless it says you can do it you cannot!



Only Freeline standard parts with Easykart logo supplied with the standard EasyKart or Freeline HQ spare parts line may be used and supplied and purchased from EasyKart UK

3.1 Floor tray part no 20.4492.10 may only be replaced with Easykart anodized floor tray part no 20.4492.10bl.

3.2 Caster and camber must remain fixed. No caster pills will be allowed.

3.3 Only Free Line pedals may be used part no: 10.7010.00, 10.4973.00, 10.5974.00-bl, 10.5973.00-bl. Pedal grips and heel stops may be added. Only Freeline foot rest bar 10.9133.00.bl Freeline pedal relocators 10.9802.00 are permitted.

The Throttle cable may be replaced. On the brake pedal a secondary safety cable must be fitted between the brake pedal and master cylinder, this cable must have a minimum diameter of 1.8mm.

3.4 The Front torsion bar may be removed. The front torsion bar clamps may not be run loose – all four bolts must be tight at all times when the torsion bar is fitted.

#### Steering:

3.5 Steering wheels part no: 5300.00.04EY or 5300.00.04MS or 5300.00.33 MS steering boss part no's 5679.10.06 or 5679.10.02

The Easykart Steering column part no 10.0481.00 which must be fitted with a safety steering column retainer ring, Any device mounted on the steering wheel must not protrude more than 20mm from the plane forward of the steering wheel and must not have sharp edges.

Easykart Stub axles with Easykart logo part no's 10.5781.00 and 10.5782.00 and track rods part no's 20.3442.06 and 20.3443.06.

#### Brakes:

3.6 Brake Disc carrier part no: 6016.00.02 or 2988.00.15, brake system part no 10.6638.00 rear brake pads part no: 10.0890.00 or Freeline HQ self adjusting brake systems part no's 10.9211.00, brake pads part no: 10.4859.00 and self adjusting brake pads part no 10.4859.00. Easykarts using the standard brake system 10.6638.00 must use a brake disc protector.

#### Axle and hubs:



3.7 Only the Easykart 30mm rear axle with Easykart logo (part number 8150.06.04m) is permitted

AND MAY NOT BE MODIFIED IN ANY WAY.

Rear hubs 100mm long only part no: 6200.00.09, 5800.00.32bl Only secondary hub stop rings purchased from Easykart may be used.

3.8 Ride height, front and rear track widths may be adjusted. The rear track to a maximum of 140cms (1400mm), and other kart adjustments are allowed as long as no parts are added or replaced (unless otherwise allowed in this section). For the front track, original spacers may not be replaced, added, or removed. These spacers can be moved from the inside to the outside of the wheel and vice versa for adjustment. Each kart must have the original red plastic two full width spacers and two half-width spacers per stub axle side.

3.9 Bolts, nuts, and washers may be replaced in non-performance items only. Enforcement and interpretation of this rule is subject to the absolute discretion of the Easykart scrutineer. No lightweight titanium or aluminum bolts are allowed. The original mounting holes of the chassis or any component of the kart must be preserved in size and original fitting and must not be altered in any way.

4.0 The bolts that hold the bearing cassette of the middle rear axle bearing may be replaced with tie wraps. Bearing grub screws may be removed on the center bearing. The axle may be drilled to secure and locate an axle grub screw, however such a drilling must result in a blind hole only No other modifications allowed. All items, except as stated otherwise in this section, must remain as EasyKart Original equipment and no items may be removed or added. No exceptions. For illustration purposes, the following items may not be altered or substituted: Axle, hubs, bearings, stub axles, wheels, brake system, chassis, steering column, track rods, engine, clutch, exhaust system.

4.1 The original stub axle king pin bolts and washers must be used at all times.

## Bumpers

4.2 Front bumper (part no 10.7036.00) and rear bumper part no 10.0923.00. The UK chrome rear bumper must be used as supplied with the lower bumper bar fixed through the two main bumper bolts. The rear bumper must remain tight at all times. If the Freeline rear protection system is used then requirement to use the lower bumper bar is waived.

The only rear pod protection system permitted is the Freeline rear pod part code 10.8809.00.



## Seat

4.3 Seat may be replaced. Original fiberglass Birel seat or Freeline seat may be used or Tillett seat models T8, T10, T11 and T12 but only in Standard rigidity form. Carbon fibre or Kevlar are Prohibited.

The seat must be rigidly located on the chassis and designed to securely locate the driver, without movement relative to the chassis when cornering or braking. All seat anchor points must have a metal or nylon reinforcement at all the anchorage points between the chassis seat supports and any additional seat stays attached to the seat. These reinforcements must have a minimum thickness of 1.5mm and a minimum diameter of 40mm.

4.4 Only two seat stays (1 per side) type Easykart or Freeline seat stays part no's 1460.06.03, 1460.06.04, 1460.06.05, 1460.06.06, 1460.06.07, 1460.06.08 may be used.

Length of stays is open to allow seat position changes. Stays can only be mounted to the inside or outside bearing hangers on the chassis. Stays may be removed completely. For safety reasons a bolt must secure both ends of the seat stays.

## Bodywork

4.5 The use of body work is mandatory and must comply with Easykart quadrilateral regulations at all times. Only Freeline bodywork parts no 6520.00.01(colour) in colors red (ro), blue (bl), black (ne) or orange (ar) or white (ba), may be used.

Aftermarket decals are permitted.

Freeline Evo pods may also be used part no 6520.00.02-BA. The Freeline bodywork may only be mounted on chrome plated support bars part no's 10.7076.00ea, 10.7078.00ea. For Freeline Evo pods the Freeline support bars part no 10.10690.00 and 10.10691.00 must be used inscribed with Easykart or Freeline and must be supplied by Easykart. The bodywork must be mounted onto the original unaltered mounting points on the corresponding chrome plated support bars.



## Transmission and Chain and sprockets

4.6 The drive must be direct so that the crankshaft and rear axle is connected with a single piece of chain. Only CZ Chain gold 219 chain may be used. CZ O ring chains are not permitted. Only the Freeline chain guard or Tillett Chain guard will be permitted. The chain guard must be used to cover the top and both sides of the exposed transmission chain and sprockets, and extend to at least the lower plane of the rear axle.

4.6. Only plastic/nylon sprocket protectors may be used. The only Sprocket carriers to be used are Freeline part nos: 5700.00.07 or 5850.00.02bl,

4.7 Front sprocket may only be replaced with original replacements as follows: 100cc engines use an 11-tooth sprocket part no: d-75555-c

4.8 Front and Rear Sprocket Sizes- Easykart Barbados will specify permissible sprocket sizes per event depending on track layout. Sprocket Sizes will be communicated in event ASRs.

## Easykart Electrics and starter batteries

4.8 Easykart's fitted with the Iame power pack part no: A.60930E-C must have the power pack attached to the chassis rail as it was originally supplied: to the left of the driver's seat on the brake side chassis rail, it is expressly forbidden to change its position on the chassis or to modify the power pack or its leads in any way including its chassis mounting clamps. Batteries to be used with power pack A.60930E-C are any 12v lead battery with amp hour rating between, 6.2 to 7.5, however such batteries must fit and must be housed in the Iame power pack battery holder and secured with the retention strap as originally supplied.

Easykarts fitted with the power pack part number 10.8986.00 must have the power pack mounted under the front panel as originally supplied. The position of the starter/off button may not be moved. It is located on the top section of the front panel. Later versions have a separate start and stop button mounted on a bracket which is mounted underneath the steering wheel – this may not be relocated.

The original Freeline battery part number 10.10988.00 must be used. The Freeline battery must be located in the bracket under the front panel. The only other Lipo batteries permitted in Easykart must be supplied by Easykart and fitted with the Freeline battery connector. No other battery types/makes are allowed.



At any point during a Easykart meeting the Easykart scrutineer reserves the right to ask any competitor to surrender his/hers power pack in exchange for another power pack belonging to the Easykart Championship for either Time qualifying, a heat or a final. The power pack includes RPM box, aluminum support panel and front bodywork panel.

Whilst this exchange power pack is fitted the Easykart scrutineer will retain the competitor's original power pack until such times during the meeting when the Easykart scrutineer requests the return of the exchange power pack.

## Data loggers

4.9 Devices for recording and displaying of data are limited to engine rpm, speed, lap times, G lateral forces, and engine hours. Devices can download data to a laptop for analysis while the kart is stationary but can not use telemetry (wire-less transmission from the kart directly to the pits or anyone else while the kart is running). Such data can be requested and must be made available for analysis by the Easykart scrutineer at any point

During Easykart events, radio communications with the driver while racing, practicing or qualifying is prohibited.

## Tyres and Wheel rims:

### 5.0:Slick tyres:

**Only the "VEGA SL4" tyres marked with the ACR label - sizes front 10x4.6-5, rear 11x7.10-5 may be used. Unless specified in the ASR's.**

**Each competitor is only allowed one set of slick tyres per round; these will be marked at pre race scrutineering. In case of a puncture a maximum of one front and one rear replacement tyre are allowed per round. It is the competitors responsibility to make sure the Easykart scrutineer inspects a faulty tyre before he/she leaves the Parc Ferme area. If a competitor leaves Parc Ferme without the Easykart inspecting the faulty tyre then no**



**extra tyre will be allowed after the kart has returned to the pit area. Once the tyre has been inspected a replacement “marked” tyre will be provided by the competitor – new or used. No extra tyre will be allowed after the kart has returned to the pit area.**

Only the Freeline aluminum slick rims 130mmCH front and 210mm rear DH part number 5550.00.91 -Lu are allowed.

Tyre shaving or truing or treating or adding any tyre softener compounds of any kind to the surface of the tyres are prohibited. Tyre warming blankets are also not permitted. Tyres can only be purchased from Easykart for Easykart events. Bead retainers and seals may be replaced.

**5.1 Rain tyres :** “EasyKart” tyres sizes front 10x4.00-5 and rear 11x6.00-5. Only the Freeline aluminum rain rims 120mm CH front and 180mm DH rear part number 5550.00.49-lu rear are allowed. An air box water repellent scoop may be added but only if the track is declared wet. No other modifications or additions are allowed for wet conditions.

For safety reasons the minimum wet tyre tread depth at the start of a race will be 2mm.

The number of wet tyre sets allowed to be used is free, however we would like all competitors to respect the etiquette and ethos of Easykart Barbados.

## **Ages**

6.0 Easykart Juniors can start from 10 years old, but must be in the year of their 11<sup>th</sup> birthday, providing they are not a rookie. Rookie drivers must be a minimum age of 12 years old. A driver can stay in Easykart Junior until the 31<sup>st</sup> December of the year in which their 15<sup>th</sup> birthday is achieved.

A Junior may transfer to the Easykart Lights or Masters class in the year they attain their 14<sup>th</sup> Birthday. A Junior may transfer to the Easykart light/Masters class in the year they attain their 14<sup>th</sup> birthday, however they must not be “rookie” status to move up to Easykart Lights/Masters if they are not 15 years old. A rookie is defined as a person with less than 5 race days of experience.

## **Weight**

7.0

The minimum weight limit for EasyKart Junior is 140KGS.



This is the combined weight of driver, kart and engine with the kart in complete racing trim, as at the end of each time qualifying, pre final or main final (s).

If it is necessary to use ballast in order to achieve the minimum weight, no installation of ballast, be it a single ballast or combination of ballast, may exceed 5KGS each. A maximum of 4kgs may be attached to the karts floor tray.

After a kart and driver have completed either time qualifying, pre final or final it is not permissible to alter the weight of the kart or driver in any way before being weighed. The driver must have his crash helmet, gloves, boots and suit as raced with him.

## Easykart Engine 100cc

**ALL ENGINE PARTS FOR ENGINE REBUILDING / SERVICING MUST BE PURCHASED THROUGH EASYKART BARBADOS.**

Easykart or the Easykart reserves the right to inspect any Easykart engine during free practice on a Saturday of an Easykart event or race day.

8.0 The engine parts that may be replaced during engine rebuilding are piston and ring, small end bearing, piston pin, oil seals, gasket set, main bearings, con rod, big end bearing, big end bearing thrust washers, reed petals or complete reed window or manifold, crank pin, clutch hub, clutch starter gear ring, internal and external clutch thrust washers, clutch roller bearing, clutch drum, clutch cover, 11t sprocket, starter bendix and cover, starter motor, ignition coil, ignition stator, rotor and cover, woodruff keys, spark plug and cap, exhaust bend, exhaust nuts, cylinder studs and head nuts and crankshaft stuffers.

In order to obtain these engine parts for engine rebuilding the Easykart owner must contact Easykart Barbados on +1-246-256-0114 quoting the engine and chassis number of his/her Easykart.

All engine parts supplied will be itemized on a Sales Invoice also quoting the Easykart engine number and the piston size supplied. This piston size will also be recorded on the Easykart database against the Easykart engine number and Easykart racing number.

No modifications allowed: Unless it says you can do it you cannot!

The engine is the EasyKart engine made by IAME. Each engine and chassis combination number is registered on a database at point of purchase with Easykart Importer. Therefore the chassis and



engine must remain and be used together at all times. The engine may be removed from the chassis for cleaning or for engine rebuilding and replacement of the engine parts.

No stickers or badges must be attached to the engine whatsoever.

Only one engine is permitted, in case of engine total failure during an Easykart race event, Easykart may repair the engine at a cost to the competitor. If there is insufficient time to make the repair, a loan engine or complete loan Easykart will be provided for a hire fee by Easykart to enable the competitor to complete the event. Such an engine or kart serial numbers should be notified and permission granted by the Easykart scrutineer before the competitor competes in, the next qualifying session, heat, or final(s).

**8.1** If an engine is ever deemed un-repairable and can never be used again then an application for a replacement engine may be made in writing to the Easykart importer. The original engine must be surrendered to Easykart and a replacement engine will be exchanged at the current RRP price. The engine and chassis database will then be amended. The crankshaft either ignition side or clutch side, crankcases, cylinder and cylinder head are all exchange parts, these shall be surrendered to Easykart if replacements are required due to irrevocable damage or in the case of the cylinder, if maximum bore is achieved over a reasonable time from new. If an engine is deemed illegal by post race scrutineering Easykart reserve the right to cancel and remove that EasyKart engine and chassis from the EasyKart database in blatant cases. This will render that Easykart unusable in the EasyKart championship both in the UK and Worldwide.

**8.2** The engine will be in an unsealed state and shall comply with the Easykart 100cc engine fiche at all times. An Easykart scrutineer reserves the right to seal the engine at any point during an event. No modifications are allowed to the engine other than changing the engine parts during rebuilding of the engine. All parts of the engine must remain genuine lame.

For illustration purposes, no component may be removed, added, altered, or moved. All engine castings must be as per factory specifications. No modification, alterations, or adjustments are allowed to the engine or the timing components

At any point during a Easykart meeting the Easykart scrutineer reserves the right to ask any competitor to surrender his/hers ignition stator or coil in exchange for another ignition stator or coil belonging to Easykart Championship for either Time qualifying, a heat or a final.

Whilst the loan ignition stator or coil is fitted the Easykart scrutineer will retain the competitors original ignition stator or coil until such times during the meeting when the Easykart scrutineer requests the return of the exchange ignition stator or coil

**8.3** The only legal reed petals for competition are the non- carbon fibre 0.30mm with the lame



name printed at the base. The Spark plug must be the Easy Kart spark plug part no: 10.6842.00 or NGK B9EGV. The Spark plug lead and connector must be OEM Easykart The spark plug sealing washer must remain in place at all times.

Spark plug temperature sensors are not permitted.

8.4 Carburettor and intake: Tillotson HL384A fixed jet; Freeline air box model AL22PS must remain as manufactured. No modification allowed. Nothing may be added or removed inside the air box.

Carburetor and intake passages must be completely standard, no polishing or matching allowed. Only an original gasket must be used, multiple gaskets prohibited. No component may be removed, added, altered, or moved. The air box must remain in original state; the trumpet gauzes may be removed.

The only Tillotson fulcrum /pressure spring allowed is part 24B-299X and must remain in original length and must not be stretched or altered in any way. The only service replacement diaphragm and gaskets sets to be used are the Tillotson DG-1-HL and/or the Tillotson Full repair kit RK-117HL.

Only the following carburetor high jets are recommended, but jet size will be specified in ASR's and must be followed:

100cc: 83 or 85

No modification to the main jet or the low jet is allowed. It is forbidden for the low jet to be adjusted whilst the kart is in motion. No tools may be fitted to make adjustments while operating the kart.

8.5 Exhaust Pipe, exhaust bend and flex must remain as manufactured as in the Easykart engine fiche. Exhaust flex length may be altered however the original noise proof wadding must remain around the flex at all times.

Exhaust temperature sensors are not permitted.

An extra exhaust end can, must be fitted to the end of the exhaust pipe to reduce noise. No other modifications allowed. Safety wire may be used to prevent components from coming loose as long as they do not enhance performance. At all times the end of the exhaust pipe must not cross the quadrilateral line of the rear bumper or rear wheels.

8.6 At any point during a Easykart meeting the Easykart scrutineer reserves the right to ask any competitor to surrender his/hers exhaust bend or exhaust pipe in exchange for another exhaust bend or exhaust pipe belonging to Easykart Championship for either Time qualifying, a heat or a final.



Whilst the loan exhaust bend or exhaust pipe is fitted the Easykart scrutineer will retain the competitors original exhaust bend or exhaust pipe until such times during the meeting when the Easykart scrutineer requests the return of the exchange exhaust bend or exhaust pipe.

### Fuel, oil and Fuel Tank

9.0 The fuel used must be pump gas on sale to the public petrol of the type on sale to the general public mixed with Official 2 stroke oil lubricant EasyKart made by EXCED part no 40.6891.00

The fuel and oil must be mixed at the ratio of 20:1 – e.g 250ML of Easykart Oil to 5 Ltrs unleaded petrol.

No other additives are allowed. ONLY the original Freeline fuel pipe and Freeline inline fuel filter part no 40.6653.00 must be used at all times

At any point during an Easykart event the Easykart scrutineer reserves the right to request a competitor to change his/her fuel in her Easykart after an official practice, time qualifying, heat or either final(s). Upon this request the competitor will be supplied pre mixed fuel from Easykart and his or her kart will not be permitted to leave a designated controlled area until the next race.

#### 9.1 Fuel tank:

Must be the original tank as supplied with the EasyKart either the fixed version or removable version. However the removable version may only be used with the corresponding frame supports.

### Helmets, racing suits and driver's equipment.

10.0 Drivers must wear a full face crash helmet at all times when on track. Racing suits, gloves and racing boots that cover at least the ankle must also be worn at all times on track. Any long hair must be tied up and worn inside a balaclava or race suit. If a wet suit or wet gloves are worn these must be worn on top of and in addition to the drivers race suit and gloves.

Helmets, gloves, suits and boots must comply with the specific requirements in our driver's



equipment document BKA regs. Please refer and comply to these specifications and listings of driver's equipment when purchasing or wearing your driver's equipment.

If your driver's equipment does not comply you will not be permitted to race!

## Race Numbers

11.0 Race numbers must be shown on all four sides of the kart

## INFRIDGEMENT OF EASYKART TECHNICAL REGULATIONS

12.0 If an Easykart owner/competitor is found to break or not comply with any of the technical regulations listed above and for whatever reason, then the following penalties or actions are available for the Easykart scrutineer as a judge of fact to impose with no appeal, protest or any legal compensation from the competitor allowed against his decision:

- a) Exclusion from time qualifying, heat or final(s).
- b) Exclusion from the Easykart meeting.
- c) Exclusion from the Easykart Championship.

In cases of blatant cheating and with consultation from the Easykart scrutineer, Easykart can ban a competitor for life and remove the competitors Easykart from the Easykart database deeming it unusable in the Easykart Championship.

12.1 Easykart Chassis and engine documentation must be made available to the eligibility Easykart scrutineer or Easykart upon request.

Notes: