



## KID KART CLASS RULES

v3 10/24/2018

### Comer Kid Kart:

Age: 5 – 7 years old

**\* Driver will not be able to compete until they reach 5 years old; ie. if the driver turns 5 June 10th they can race on or after June 10th.**

**Engine:** Comer C-51 only

**Fuel:** VP C12 with 8oz/gal Redline or Motul Oil

**Tires:** Slicks MG “HZI” Red 4.60 Fronts & Rears

Rains MG “WT” 4.20 Fronts & Rears

**Weight:** 150 lbs.

**\* SFI 20.1 Chest Protectors are MANDATORY for all Kid Kart Drivers.**

**Frame** – Offset karts are not permitted, seat shall be within the frame rails. Seat and pedals should be located where the driver can reach and control the kart.

**Seat and Steering Height** – Minimum seat height is 12”, maximum steering wheel height is 20”.

**Wheelbase** – 29” minimum 35.5” maximum.

**Width** – Front 40” maximum outside of tire/rim, no minimum. Rear 39” minimum, 42” maximum outside of tire/rim.

**Bodywork** – CIK Side pods and nose cones are mandatory.

**Rear Bumper** – Full coverage rear bumper required. CIK plastic or Metal loop for 2018. CIK plastic required 2019 onward.

**Chain Guard** – Chain must be completely covered when looking from above or behind kart. A full chain guard is recommended but not mandatory.

**Chain and Gearing** - #219 chain, 10 tooth driver with 89 tooth gear.

**Tire Circumference** – Maximum rear tire circumference is 33 3/8”.

**Tire Pressure** – Maximum tire pressure is 30 psi after race.

### IAME Bambino M1 Kid Kart:

Age: 5 – 7 years old

**\* Driver will not be able to compete until they reach 5 years old; ie. if the driver turns 5 June 10th they can race on or after June 10th.**

**Engine:** IAME Bambino

**Fuel:** VP C12 with 8oz/gal Redline or Motul Oil

**Tires:** Slicks MG “HZI” Red 4.60 Fronts & Rears

Rains MG “WT” 4.20 Fronts & Rears

**Weight:** 160 lbs.

**\* SFI 20.1 Chest Protectors are MANDATORY for all Kid Kart Drivers.**

**Frame** – Offset karts are not permitted, seat shall be within the frame rails. Seat and pedals should be located where the driver can reach and control the kart.

**Seat and Steering Height** – Minimum seat height is 12”, maximum steering wheel height is 20”.

**Wheelbase** – 29” minimum 35.5” maximum.

**Width** – Front 40” maximum outside of tire/rim, no minimum. Rear 39” minimum, 42” maximum outside of tire/rim.

**Bodywork** – CIK Side pods and nose cones are mandatory.

**Rear Bumper** – Full coverage rear bumper required. CIK plastic or Metal loop for 2018. CIK plastic required 2019 onward.

**Chain Guard** – Chain must be completely covered when looking from above or behind kart. A full chain guard is recommended but not mandatory.

**Chain and Gearing** - #219 chain, 10 tooth driver with 89 tooth gear.

**Tire Circumference** – Maximum rear tire circumference is 33 3/8”.

**Tire Pressure** – Maximum tire pressure is 30 psi after race.



## **503 IAME Bambino M1 Rules & Regulations:**

- \* Note: All measurements are in inches unless otherwise stated.**
- \* Homologation Document listed on the USPKS website will be used for anything not listed below.**
- \* No external modifications of any type including air scoops or heat retention additions.**

### **503.1 Engine:**

Shall remain stock as manufactured.

#### **503.1.1 Engine Shroud:**

Engine shroud maybe placed in either direction but must not be altered in any way.

#### **503.1.2 Tape on Engine Shroud:**

Placing tape on the engine shroud is allowed.

### **503.2 Carburetor:**

Tillotson HS-323A Shall be as manufactured. \*Bypassing fuel or air to the motor in any way other than as manufactured is illegal.

### **503.3 Fuel Filter:**

Any fuel filter is permitted. If utilized, it must be between the tank and carburetor.

### **503.4 Air Filter & Cover:**

OEM air filter cover shall be used as manufactured.

### **503.5 Spark Plug:**

Only NGK – BR8EG, BR8EIX, BR9EG, BR9EIX, BR10EG or BR10EIX can be used with the OEM washer in place. If a cylinder head temperature sensor is utilized, the OEM washer may be removed. Commonly used, stock, cylinder head temperature sensors may be used for comparison.

#### **503.5.1 Spark Plug Boot:**

OEM or NGK

### **503.6 Muffler:**

Must use OEM muffler. Excessive leakage in any part of the exhaust system is illegal and competitor could be disqualified. Exhaust Gas Temperature sensors are illegal.

### **503.7 Clutch:**

As factory supplied. Maximum drum ID 3.354" (85.2mm). Must be IAME 10 tooth drum without holes. Oiling the clutch is illegal. Must pass clutch test: while on the kart stand competitor will start engine and by holding the brake and applying throttle RPM must not exceed 5000.

### **503.8 Recoil/External Starter:**

Either the recoil or external starter is allowed. Competitor may remove the rope, plastic rope spool and recoil spring if they chose. The two rotating parts on the motor that the recoil engages in must remain in place and the recoil cover must remain place even if all internal parts are removed.

### **503.9 Timing Procedure:**

1. Insert dial indicator in spark plug hole
2. Zero at TDC
3. Roll piston back to align marks

**Per M1 60cc - Pull Start – USA PDF Dated 22/03/2017 (Found on Rt.66 website)**

4. Reading must be between 0.035" (0.9mm) - 0.059" (1.5mm) before TDC

**Note – All ignition parts must be OEM and unaltered.**



## ***Comer Kid Karts (2018)***

### **Comer C-51 Rules &**

#### **Regulations:**

**\* Note: Any part may be compared to known stock part for determination of legality.**

#### **Engine Pressure/Vacuum Testing:**

USPKS may perform a pressure or vacuum test to ensure extra air is not being pulled into the engine for any performance gain. Both pressure and vacuum tests may be performed — engine must hold 5 psi for 60 seconds and/or 5 HG of vacuum for 60 seconds.

#### **Engine:**

Shall remain stock as manufactured.

#### **Carburetor:**

Model SHA 14 12L Dellorto

Shall be as manufactured; broken carburetors cannot be repaired outside of damaged bolt holes that can be repaired with tread insert or bigger bolt.

#### **Intake Manifold:**

Shall be as manufactured; any polishing is illegal.

#### **Air Filter:**

Open.

#### **Spark Plug:**

Shall be OEM 3/8" reach.

#### **Cylinder:**

Shall be as manufactured; any grinding is illegal.

**Piston:**

Shall be OEM/Stock appearing. Skirts shall be the same measurement +/- 0.015" on each side with the minimum length of 1.210" from the bottom of the bottom ring groove to bottom of piston skirt.

**Ring:**

Must be OEM with a maximum gap of 0.040 and shall not fall through the cylinder.

**Combustion Chamber:**

Shall be as manufactured. Threads shall be intact; if threads are repaired with thread insert, it shall be full length.

**Crank and Wrist Pins:**

Shall be OEM.

**Main Bearings:**

Shall be same type and size as OEM bearings. Dual row bearings are legal; ceramic or other exotic bearings are illegal.

**Seals:**

Shall be in place as manufactured. Any attempt to reduce drag or sealing is illegal; leaking seals could lead to disqualification.

**Base Gasket:**

Shall be used with no maximum thickness.

**Clutch:**

Clutch shall be as manufactured. Shoe shall be stock appearing; removing material or polishing is illegal, and shoes shall have the Comer in the casting.

**Muffler:**

Shall be C51 OEM with a single OEM gasket in place. Bolts shall be tight; if safety wire is used, the muffler shall not be able to be moved by hand. The exhaust holes shall pass the 0.110"/0.475" No-Go inspection.

**Tape on Engine Shroud:**

Placing tape on the engine shroud is allowed.

**Comer C-51 Specs**

CC – 8.3 using LAD cc plug with 0.310 spacer

Exhaust – 1.200 minimum, using a 3mm rod

Intake – 0.370 maximum, using a 3mm rod

Timing – 0.040 – 0.060

Clutch Spring – Max. Diameter 0.430" with 9 coils

Wire Diameter 0.075" – 0.080"

Carburetor – Venturi 0.475" (No Go)

Jet – 0.019" (Go), 0.026" (No Go)

Atomizer Tube – Bottom hole 0.035" (No Go)

Top hole 0.049" (No Go)