

# WKA 2010 KID KART SERIES REGULATIONS

Contact information and updates can be found at [www.ovka.com](http://www.ovka.com)

The following regulations are guidelines ONLY.

Please refer to 2010 WKA Technical Manual and 2010 OVKA Rule Book for complete wording, descriptions and details.

## 900 KID KARTS

**NOTE:** The intent of this class is to allow beginning driver's ages five (5) through seven (7) (and their parents) the opportunity to learn driving skills and mechanical techniques. Although this class is offered at some National events, it's not a National class. It is intended to be a demonstration class. Tech is optional, but every effort should be made to make racing close so as not to discourage young competitors. If event participation awards are given, they must be of equal value. All participants are "Winners". WKA recommends that a Kid Kart director be appointed at each event.

**CLASS INTENT:** Class intent is very clear. Anyone found not in compliance with the following rules, (parents/guardians/pit crew) is subject to disciplinary action. WKA recommends that 5 to 7 year old drivers not be disqualified.

**901 SAFETY AND EVENT FORMAT.** \*= 2010 RULE CHANGE # = See OVKA Rule Book

**901.1 SAFETY:** Karts must pass pre-race technical inspection before being allowed on track.

**901.1.1 CHEST PROTECTORS:** Chest protectors meeting SFI Specifications 20.1 are mandatory for all Kid Kart drivers. Chest protectors are not mandatory for Champ Kart drivers.

**901.1.2 DRIVERS MEETING:** Kid Kart driver/parent meeting will be held before event.

**# 901.1.3 TRAINING EVENT FORMAT:** Training event will consist of nine (9) laps in duration. Event will be a standing start, two abreast, lined up by draw. The training race will proceed under green, barring the need for yellow or red for three (3) laps. The yellow flag will be displayed at the beginning of the fourth (4<sup>th</sup>) lap. The field will proceed at reduced speed, single file, and will maintain position for two laps. The green flag will be displayed at the beginning of the sixth (6<sup>th</sup>) lap. Green flag conditions will prevail, barring the need for a yellow or red flag, for four (4) laps. The training event will be white flagged at the conclusion of lap eight (8) with the checkered flag being given at the conclusion of the ninth (9<sup>th</sup>) lap. Awards will be given out at the completion of the event. All participants will proceed to the scale/tech compound (or other designated area) for a critique of the event. Official weigh-in is not necessary but may be done for training purposes.

## **902 KID KART CHASSIS SPECIFICATIONS \* = 2010 RULE CHANGE # = See OVKA Rule Book**

**902.1 CHAIN GUARD:** Chain guard is to completely cover the chain when viewed from above.

**902.2 CHAIN & GEARING:** Comer #219 chain, 10 tooth driver, 89 tooth rear sprocket.

**902.3 CHASSIS DESIGN:** No offset karts. Seat must not be offset beyond the outside edge of left frame rail.

**902.4 WHEELBASE:** Minimum 29", Maximum 31".

**902.5 WIDTH:** Front, maximum 40", as measured to outside of rim/tire. (no min.) Rear minimum 39", maximum 42" as measured to the outside of rim/tire.

**902.6 REAR BUMPER:** Continuous loop shaped with vertical or angled bracing connecting upper and lower loop rails. Bumper must protect rear tires.

**902.7 STEERING & SEAT HEIGHT:** Maximum 20" Seat height, minimum 12".

**902.8 BODYWORK:** Side pods or double nerf bars and nose cone are mandatory.

**902.9 TIRES:** Open compound. Size 10 x 450 or 4:60 x 5. Maximum rear tire circumference is 33.75".

**902.10 WEIGHT:** Official weigh-in optional. Local ruling is dependent upon physical size of class participants. Suggested weight 125 lbs. to 150 lbs.

## **903 ENGINE SPECIFICATIONS \* = 2010 RULE CHANGE # = See OVKA Rule Book**

**903 ENGINES:** Comer C-50 or C-51. All engines are to remain stock as supplied by the manufacturer. No grinding or aftermarket accessories (including fasteners) except as specifically noted. The only changes permitted are those that will promote equality among competitors rather than increasing performance.

**903.1 CARBURETOR:** Model SHA 14-12L Dell'Orto. All parts must be "as cast" 0.475" NO-go venturi. Jet size #54-#58. No repairs to broken carburetor bodies. Stripped bolt holes may be repaired with thread inserts or next size larger bolt may be installed. Additional return spring on carburetor or on foot pedal required for safety. Manifold restrictor issued by WKA in Gold Cup, Dirt, and Pavement Series. Manifold restrictor not required in Kid Karts in the Manufacturer's Cup Series.

**903.2 AIR FILTERS:** Manufacturer's Cup and Gold Cup Series require Stock air filter with at least one stock filter element. Dirt and Pavement Series allow any air filter.

**903.3 COMBUSTION CHAMBER:** OEM shape. C.C.: 7.3 minimum using WKA Cylinder Head Volume Check. (See section 504) The cc measuring plug shall not be used. Combustion chamber to remain as manufactured. All threads are to be intact. If a thread insert is used, it must be of full length. Any attempt to bypass the intent of this rule is illegal.

**904.4 CYLINDER:** Liner and aluminum cylinder "as cast". No grinding allowed at any time.

**903.5 PORT HEIGHT CHECK:** Install dial into cylinder and zero. Install 3mm rod, no longer than 3.00" (76.3mm), approximately 0.25" (6mm) into appropriate port. Rotate piston until gentle contact is made. Release 3mm rod. It is to remain unsupported. Read dial indicator. Exhaust: 1.200" minimum, Intake: 0.370" maximum.

**903.6 BASE GASKET:** Must be in place. No maximum thickness.

**903.7 PISTON:** Must be OEM and stock appearing. Both skirts must be same length from bottom of ring land to bottom of piston is 1.210".

**903.8 RINGS:** Must be OEM rings, max gap 0.040". Rings cannot fall through cylinder.

**903.9 CRANK PIN AND WRIST PIN:** OEM.

**903.10 MAIN BEARINGS:** Brand is non-tech, but must be the same type as OEM. Exception: Dual row bearings are permitted. Ceramic ball bearings or any type of exotic design bearings are not permitted.

**903.11 SEALE:** Must be installed as OEM. Seal brand is non-tech, but no attempt to reduce sealing or drag is allowed. Evidence of a leaking seal is grounds for disqualification.

**903.12 IGNITION:** Timing shall be checked with a dial indicator as per published procedure. Flywheel key must be in place and unaltered.

**903.12.1 IGNITION QUICK CHECK:** Remove flywheel nut and visually check to ensure that key is in place.

**\*903.12.2 COMPLETE IGNITION TIMING CHECK PROCEDURE:**

- Remove spark plug.
- Remove starter cover.
- Install dial indicator in spark plug hole.
- Set dial indicator to 0.0 at top dead center.
- Rotate flywheel in counter clockwise rotation until the first magnet is exposed to the left of the coil.
- Observe mounting lug of coil. Note the bottom of the lug is machined to match the curve of the flywheel. The left hand edge of the lug (nearest to engine center) is the edge which will be used to determine ignition timing.
- Rotate the flywheel counter clockwise to align the right hand edge of the magnet with the left hand of the mounting lug and read dial indicator, leading edge (RH) should be between 0.040" and 0.060". Any reading outside these dimensions is illegal.

**903.13 PLUG BOOT:** Non-tech.

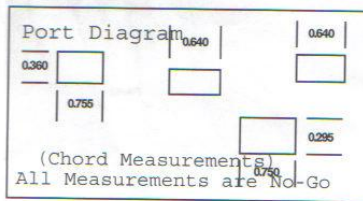
**903.14 PLUG WIRE:** OEM.

**903.15 SPARK PLUG:** Plug brand is non-tech. Plug reach to be (3/8").

**903.16 MUFFLER:** OEM C50 or C51 only. Holes are shown in muffler illustration on the following page. One OEM exhaust gasket. Bolts must be tight. If safety wired, tech inspector must remove bolts. It is recommended that a "sniffer" be used to determine exhaust integrity. Acceptable "sniffers" are Robinair Model 14970 (low range), TIF Model 5500 and Snap-On tools Model ACT5600.

**\*903.17 CLUTCH:** Clutch must be run as manufactured. Shoes must have “Comer” name cast onto them. Shoes must be stock appearing with no polishing or removal of material. Minimum allowed width of shoes and assembly 0.650”. Shoe length minimum is 2.500” chord measurement. Spring maximum diameter 0.430 and 9 coils. Wire diameter 0.075 to 0.080.

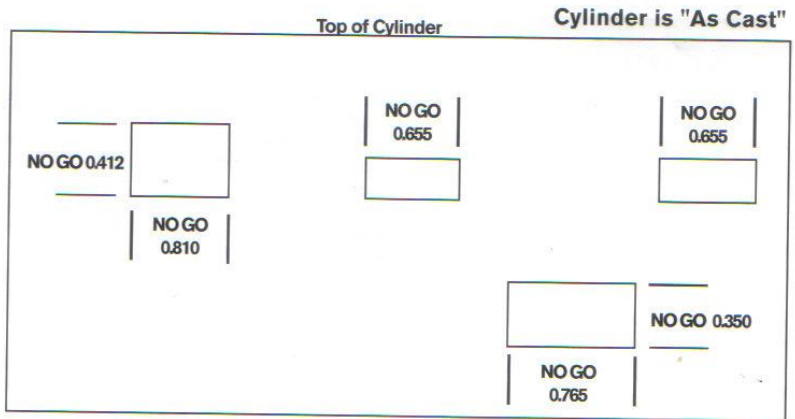
**903.18 SHROUD:** No taping of shroud allowed. Replacement fasteners allowed.



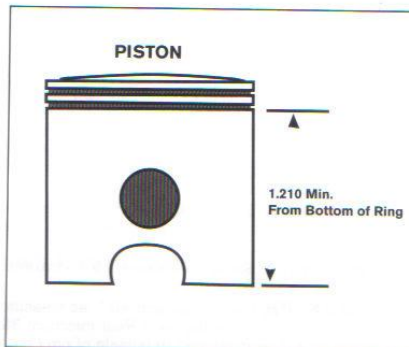
Carb: Model SHA 14-12L Dellorto  
0.475 No Go Venturi  
Jet Size: #54 to #58  
Restrictor Plate: 0.276" Maximum  
Inside Diameter  
All Parts "As Cast"

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Head: Head cc: 7.3 cc minimum



Aluminum Cylinder "As Cast". Engine is not legal if any metal has been removed to match port opening to aluminum cylinder.



**MUFFLER**  
Exhaust Stock Muffler only.  
Original manufacturer only.  
Only two holes. No Go test on both holes.

NO GO 0.110  
Each Hole

NO GO 0.475  
Each Hole