

Schwanke Engines LLC

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2012 Put-Put Go Kart League (5-9 year old)

Dates: Friday, June 1st – Friday, July 27th (NO league races on July 13th)

Time: Friday – Pit Gates Open 6:30pm – **Pit Gates Close 7:00pm** - Races Start 7:30pm (Subject to Change)

Cost: One-time \$150.00 sanctioning fee for summer league or (\$25.00 per night)

(Needs to be paid to Schwanke Engines LLC by May 20th, 2012)

Includes:

- : 8 nights of racing
- : Insurance
- : Trophies
- : Entry fee per kart per event includes driver & 1 pit pass for over 18 adult
- : League Members only can Test and Tune any open karting night with their Kart for \$10.00 per night does not include other riders riding your kart and can go out only when told.

- \$10.00 fee for any pit member
- General Grand Stand Admission \$5.00 18 and over, 17 and under Free
- Concessions Available

HOW IT WORKS!

- You must be at least **5 years old and no older than 10**.
- You must be 42" tall to drive.
- You must have a parent permission form on file and 1 adult needs to be present.

- Points 1st place is worth 10 points and last place is worth 1 point.

1 st Place = 10 points	6 th place = 5 points
2 nd Place = 9 points	7 th place = 4 points
3 rd place = 8 points	8 th place = 3 points
4 th place = 7 points	9 th place = 2 points
5 th place = 6 points	10 th place on back = 1 points

If there is a tie the person with the most wins gets the higher trophy and less wins gets next trophy. League standings will be posted on our web site www.schwankeshortblocks.com.

RULES:

- Go Kart
 - You supply kart
- You must be a rookie and have never raced in competition before
- Schwanke Engine's reserves the right to move you up in a class if we feel your competition level allows
- Engine

We have adopted the American Kart Racing Association (AKRA) Box stock engine rules for the 2012 racing season.

- ENGINE SPECIFIC TECH SHEET FOR: BOX STOCK 6.5 OHV
- Description: Single cylinder, 2 valve, OHV 4 cycle engine.

Combustion chamber volume: **26.5 cubic centimeter minimum**, with piston at TDC, using prescribed procedure. The Liquid CC check is the official check (IF THE ENGINE FAILS THE CC LIQUID CHECK AT ANY TIME DURING THE TECH PROCEDURE IT MUST BE CALLED ILLEGAL)

Cylinder Head Requirements: Must be OEM casting only. Porting and / or grinding are not permitted. Valve seats are two angles 45 degrees valve face and 30 degrees top relief. Intake seat maximum ID .897", Exhaust seat maximum ID .862". **Outside face of valve may not be below floor of combustion chamber (i.e. don't sink the valves)**. Stock head bolts only, must have four. Head gasket/s maybe after market, must be of stock configuration, **gasket thickness is a non tech item. Depth check between the valves, front to back and side to side may not vary by more than .005" max**. No copper or aluminum gaskets allowed. Any stock configuration exhaust gasket allowed no other sealer.

Block Requirements: Stock cylinder bore is 2.685" + .030 (2.715" max). Stock Stroke is 2.123" + .010" or - .005". No piston pop out allowed. Matting surface finish of block and cylinder head is a non-tech item, surfacing of both to correct gasket failure and meet cc check allowed **however, no piston pop out is allowed**. May use 2 side cover gaskets of stock configuration. Block must remain stock as produced. Stub for governor may be removed and hole plugged. No machining of block allowed. Welding to the block shall be for rod damage repair only and may not constitute a functional modification.

Carburetor requirements: Huayi OR RUI*ING model carb only. Carb to intake sealer is gasket only no other sealer allowed. Choke must be as supplied from factory, but may be fixed to stay in open position. Venturi .615" NO-GO. Rear carb bore .751" NO-GO. **Low speed idle jet is a Non Tech item**. Stock emulsion tube must be used, Throttle shaft - .115" minimum. Butterfly - .037" minimum. Aftermarket air filter adapter allowed (max length of 1.375). **Mandatory .425 air restrictor between the carb and cylinder head (Silver in color)**

Valve Train: Stock valve cover only with any stock configuration gasket. Factory stock rocker arms 1:1 ratio and push rods only. Stock valves only 45 degree angle only both valves, Intake valve Max OD **.982" +/- .005"** and Exhaust valve Max OD **.948" +/- .005"**, no modifications allowed. Only Box Stock valve springs. Max wire diameter on spring wire is **.072"** with a maximum tension of 10.8 lbs. at a height of **.850"**. Lash cap on exhaust valve only. **Valve stem seal or shim allowed on Intake and Exhaust valve, maximum lip thickness of .030". Minimum thickness of Intake retainer .230", Exhaust retainer .250"**. Box Stock lifters only, no modifications allowed.

Ignition system: Stock Box Stock system only and must be unaltered (Must use Stock coil in stock location). Kill switch and low oil sensor may be disabled and removed. Flywheel: Box Stock **Cast flywheel only** (No Alterations allowed).

Piston and Rings: Must be unaltered Box Stock only. No machining of piston and rings allowed.

Connecting Rod: Stock Box Stock rod only. No machining of any type allowed. Stock rod bolts only.

Crankshaft Requirements: Stock Box Stock crankshaft required. Machining, polishing, addition of material or other alteration of crankshaft is prohibited. Stock factory timing gear mandatory and must be installed in original location. Crankshaft journal diameter is 1.180"max - 1.168" min.

Camshaft Requirements: **Stock camshaft cores only, ez-spin assy must remain as stock**. Cam lobe base circle diameter **.865" - .005"/+.010"**. Max Intake lift on cam **.225" – Min .215"** lift taken at the pushrod. Max Intake lift at the valve **.238"** Taken on valve spring retainer with zero lash. Max Exhaust lift on cam **.232" – Min .222"** lift taken at the pushrod. Max Exhaust Lift at the valve **.242"** Taken on valve spring retainer with zero lash.

Blower Housing Assembly: pull starter must be present and remain stock. Pull starter may be rotated for a better crank angle.

Header and Muffler Requirements: **Any single stage, one-piece header made from .625" ID steel tubing, With Muffler (Required) 15" max length and 10" min length. Exhaust Pipe and Muffler must be securely fastened or safety wired. (No aftermarket coatings of any type are permitted.)**

Fuel Tank Requirements: Floor Mounted fuel tank or Stock tank allowed. Pulse type fuel pump allowed.

Fuel Pump Requirements: Fuel pump must be pulsed from either the crank case or the valve cover. You may install a flat metal plate in the original tank location for the purpose of mounting the throttle linkage and fuel pump.

Clutches: Stamped steel drum shoe type clutches only, No machined Billet drums allowed. No disc clutches allowed. (35 Chain only)

Fuel: **Pump gasoline, GT100, E98 or E85 only no methanol**

- **Body**
 - Karts must have nose piece
 - Karts must have bumpers that cover to the center of rear wheels
 - Karts must have side nurf bars
 - Chain guard required
 - Clutch guard required
 - Kart number 6" minimum letters 1 or 2 digit or 1 digit and 1 letter on right front corner, left side panel and back of go kart (number must be okayed)
- **Tires**
 - Can not exceed width of nose cone
 - Slicks only, No grooved tires
- **Weight**
 - Put-Put Class 235lbs minimum weight kart and driver

 - Weight must be secured with bolt and safety clips in place
- **Safety Equipment**
 - RACEceiver **(Mandatory)** \$100.00
 - Helmet with face shield **(Mandatory)** Must have snell 2000 and up rating (*no goggles & open face helmet*)
 - Neck Brace **(Mandatory)**
 - Transponder **(Mandatory)** \$75.00
 - Driving Gloves **(Mandatory)**
 - Driving suit fire retardant, or Fire retardant Jacket and Pants **(Mandatory driving Jacket)**.
 - Driving shoes, tennis shoes okay, no open toe shoes or sandals

Schwanke Engines reserves the right to amend the rules