



2014 Shady Oaks Speedway Kart Rules

General: Class Designations

Number of classes to run will be determined by car count

Youth Kart

So.WOK aka NWOK

Frame: Any race chassis, custom frame allowed. Must be made of steel, no aluminum, or titanium.

Champ Karts must be fixed cage, i.e. non-floating, spring suspended.

So.WOK aka NWOK may have floating cages.

Maximum 95" Length including bumpers.

Bodies: Bodies are recommended. May be made of steel, aluminum, plastic, fiberglass. Feet must be protected by nose cone or tubing.

Maximum width 52"

So.WOK may run wing on roof of kart.

Minimum 8" numbers displayed on both sides and front.

Weight: Champ Kart 290 Lbs. with driver.

So.WOK 325Lbs. with driver.

Weights must be painted white with Kart number, mounted with minimum ¼" bolts.

Suspension: No shocks, springs, torsion bars allowed. If equipped with suspension must be mounted solid as to not move.

Minimum 40" Wheelbase

Adjustments such as Camber, Caster, and Weight Jacks allowed.

Roll Cage: Roll Cages are mandatory, must be minimum of ¾", .750" Outside Diameter. Cage must be securely mounted to frame.

Padding Recommended.

Floating Cages only allowed in So.WOK division.

Safety: Minimum 4 point seat belts, bolted to frame.

Full Face helmet with adequate eye protection.

Minimum Fire Proof Jacket and Long Pants Required, Fire Suit Highly Recommended.

Arm Restraints Required.

Neck Brace Required.

Kill Switch must be mounted in front of driver and recommend one to the rear for emergency shut off.

Bumpers: Front and rear bumpers are required, maximum 1" Outside Diameter, must be rounded ends, no sharp edges.

Nerf Bars are required with maximum 1" Outside Diameter. Recommend side panels mounted to outside of nerf bar.

Wheels: Steel or aluminum wheels allowed.

Tires: Junior and Senior Karts – Turf type tires. (Most common 13x 6.5x6 or 13x5.5x6)
Winged Karts – Turf tire or Race tires

Fuel: Gasoline only. No additives or methanol.

Drive Train: Must be live axle type. Chain or Belt Driven. Chain Guard must be in place.

Clutch: Drum or Disk type allowed. No direct drives.

Brakes: Must have 2 rear wheel operating brakes in good working order, i.e. one rotor, one caliper mounted to solid/live rear axle. Rotor guard must be in place.

Engine: 6.5 HP 196cc Blue Honda Clone Motor available from Harbor Freight and Tools.

Removal of governor, muffler, air box, low oil sensor allowed.

Carburetor: Choke assembly must be in place and functional.

Choke bore .810" dia. max, venturi .615" max and throttle bore .751" max.

Filter adapter and filter non tech.

Any pulse type fuel pump permitted and can be pulsed from the crankcase, valve cover. No intake manifold pulse fittings.

Exhaust: Header must be washer or flanged end. Muffler recommended! (Its YOUR kid's ears.)

Fuel Tank: Remote floor mounted tank is recommended for safety reasons.

Connecting Rod: OEM Cast rod, no modifications allowed.

Piston: OEM Dished Std. bore (68mm or 2.677") only. Three ring design and all rings to be intact and functional. No pop up.

Crankshaft: Standard OEM item with stock stroke length of 54mm or 2.126" (plus or minus .005"). No alterations permitted.

Flywheel and Ignition Coil: OEM stock/unaltered flywheels and plastic fins only. (no machining allowed) Plastic fins must be intact and have their full depth. Minimum (bare) flywheel weight is 5.0 lbs.

So.WOK aka NWOK: May run Aluminum flywheel Part# ARC6619 only

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". Stock head bolts only, must have four. Head gasket/s maybe after market, must be of stock configuration, 2 gaskets permitted with a total minimum thickness of .008" and maximum of .020". No copper or aluminum gaskets allowed.

Valve Train: OEM push rods, push rod guide plates, retainers, springs, keepers, rocker arms and adjusters only. OEM valves with 45° seat angle only and no lightening or polishing. Stock 1:1 ratio OEM rocker arms only. OEM valve springs only with a maximum spring diameter of .798" (wire diameter .073" max) and a maximum tension of 10.8 lbs at .850" compressed height.

Camshaft: Stock camshaft cores only, de-compression must remain as stock. Cam lobe base circle diameter .865" -.005"/+.010" Duration check for Intake and Exhaust lobes (taken off push rod). Intake duration of 219 degrees at .050 lift/86 degrees at .200 lift. Exhaust duration of 222 degrees at .050" lift/97 degrees at .200" lift(All duration checks on intake and exhaust allow +/- 2

degrees for wear and gauge variances). Max Intake lift on cam .225" – Min .215" lift taken at the push rod. 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 push rod. Max Exhaust Lift at the valve .242" Taken on valve spring retainer with zero lash.

Gaskets & Sealer: Gaskets are non-tech and sealer may be applied unless otherwise specified.

Bearings: Crankshaft bearings shall be of metallic (magnetic steel) construction (Excluding retainers) and be of conventional design and the same dimensions as the OEM bearings. This includes inner and outer races as well as the balls and rollers. No other materials allowed.

Coatings: Internal performance coatings of any type not allowed.

Crankcase breathers are to be routed internally through the valve cover as originally intended in OEM configuration. No additional breathers allowed.

BSP Claimer Rule: You must finish the race in the Box Stock Class to purchase the winners engine for \$200 (minus the clutch/chain guard/throttle kit, header pipe/muffler, air filter adapter/air filter, top plate & fuel pump).

So.WOK Claimer Rule: You must finish the race in the So.WOK class to purchase the winners engine for \$200 (minus the clutch/chain guard/throttle kit, header pipe/muffler, air filter adapter/air filter, top plate & fuel pump, Flywheel).