

2019 Changes are highlighted in yellow.

6. VKA Event Class Structure Guidelines ³

VINTAGE DIVISION

1. HISTORIC	1956 to 1964 rear engine karts and engines; single, dual, or triple engines, 16.5 c.i. (270cc) max displacement; Must have vintage-style dry clutches or direct drive ; box muffler; vintage tire required; Promoter may split class as per VKA Guidelines (Para. 6a, below); duals/triples in front. This is a non-points, Tier II demo class.
2. JUNIOR REAR OR SIDEWINDER	Junior (Boys/Girls ages 10-14) - Single 100cc (6.1 c.u. in.) max. American Fan Cooled Engine (<i>i.e.</i> West Bend, McCulloch, Power Products, Homelite) or West Bend 820. All engines will run single HL 1" or smaller carb throttle bore. Any intake allowed, but West Bend must use V-Reed or Go Power , 4 or 6 petal cage, box muffler and vintage tires required. Yamaha KT100 engine may be used with WA55 Walbro carb, "limited" exhaust system and vintage tires. (See Yamaha Limited Class for pipe and clutch requirements) (Junior class can run rear or sidewinder kart.)
3. SPORTSMAN REAR	Rear American engines; 8.2 c.i. (135cc) max displacement WB-820 with 8.2 c.i. (135cc) max displacement must be industrial-type; McCulloch's must be 6.1 c.i. (100cc) max displacement or saw blocks over 80cc. Small single intake manifold allowed (WB V-reed, Homelite reed, Go Power reed, etc.). Manifold to have an HL bolt pattern, single reed cage manifold only. Single HL 1-inch maximum throttle bore carburetor. Small Mac flat-back carb OK. Must have vintage-style dry clutch, box muffler and vintage tires. MC-91, 92 and 93 engines are allowed. Single Carb manifolds only, No V-4, V-6 or V-12 manifolds. No 91-93 Mac Carbs; No 91-93 Mac Manifolds.
4. MAC 49/SAW	Rear engine karts; Mc49 or 80cc saw block engines. 1.375 maximum stroke; Aftermarket small single intake manifolds allowed (WB V-reed, Homelite reed, Go Power reed, etc.) or factory Mc 49 intake. Manifold to have an HL bolt pattern. Single HL 1-inch maximum throttle bore carburetor or small Mac flat-back carburetor; Vintage style dry clutch; Box muffler; Vintage tires.
5. SINGLE REAR 6.1	Rear engine karts; American engines only, 6.1 c.i. (100cc) max displacement; pipes and oil clutches allowed; no disc clutches; any carburetor combinations, vintage tires.
6. SINGLE REAR 8.2	Rear engine karts; American engines only, 8.2 c.i. (135cc) max displacement; pipes and oil clutches allowed; no disc clutches; any carburetor combinations, vintage tires.
7. DUAL REAR, B- & C-OPEN	C-Open: American engines only, 16.5 c.i. (270cc) max displacement; pipes and oil clutches (no disc clutches); vintage tires. Any Historic B or C Class dual engine rear karts may run this class. No axle clutches. B-Open: American engines only, 12.2 c.i. (200 cc) max, dry clutch, box mufflers, #35 chain, and vintage tires. (B-Open to be run in concert with C-Open and scored separately.)
8. SINGLE 6.1 S/W AMER.	Pre-1980 sidewinder with American fan cooled engines, 6.1 c.i. (100cc) max displacement; engine clutches only (Max Torque, Rev Grip, Comet, L&T wet disc, Horstman DXL, Horstman Steel Nytro, Bureo, Hartman, and Noram); pipes allowed; modern tires allowed; 56 durometer minimum ; one-inch axle. Max kart width of 48 inches.
9./10. SINGLE 6.1 FOREIGN 8.2 AMER-SW	Pre-1980 sidewinder with American fan cooled engines, 8.2 c.i. (135cc) max displacement or Foreign or American engines, 6.1 c.i. (100cc) max displacement produced before 1980; engine clutches only (Max Torque, Rev Grip, Comet, L & T wet disc, Horstman DXL, Horstman Steel Nytro, Bureo, Hartman, and Noram); pipes allowed; modern tires allowed; 56 durometer minimum ; one-inch axle. Max kart width of 48 inches. No axle clutches.
11. SINGLE 8.2 S/W FOREIGN	Pre-1980 sidewinder with Foreign or American engines, 9.15 c.i. (150cc) max. displacement produced before 1980; engine clutches only; pipes allowed; modern tires allowed; 56 durometer minimum ; one-inch axle. Max kart width of 48 inches. No axle clutches
12. OVER-60	Drivers 60yrs +; Rear or pre-1980 sidewinder karts; American, fan-cooled, 6.1 c.i. (100cc) max displacement engines; pipes allowed; oil clutches allowed; no disc clutches; vintage tires; any carburetor combinations. Promoters should consider separating the sidewinder and rear engine karts for scoring purposes when participation is sufficient to do so. Allow sidewinders to start in the front. Max kart width of 48 inches.
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<p>13. DUAL SIDEWINDER</p>	<p>Sidewinder with Foreign or American engines, 18.3 c.i. (300cc) max displacement; engine clutches only (L&T wet disc, Horstman DXL, Horstman Steel Nytro, Burco, Hartman, and Noram); pipes allowed; modern tires allowed. Tire compound durometer minimum of 48. Bridgestone YLC and MG tires allowed. May use any approved single sidewinder tire (see par. 6b, below); 1 1/4" axle allowed if original; engines must be manufactured prior to 1980 and karts must be manufactured prior to 1983. No K-30, K35, TKM 135, TKM 150, or PCR 135 engines allowed in this class. No axle clutches.</p>
<p>14. 80-87 SIDEWINDER</p>	<p>80 – 1987 sidewinder with Foreign or American engines, 6.1 c.i. (100cc) max displacement; pipes allowed; engine clutches only (L&T wet disc, Horstman DXL, Horstman Steel Nytro, Burco, Hartman, and Noram); modern tires allowed; 56 durometer minimum; 1 1/4" axle allowed; kart and engine must be manufactured prior to 1988 – see Engine Schedule. (Para. 6c, below) Max kart width of 50 inches. No axle clutches.</p>
<p>15. SPORTSMAN S/W (STOCK APPEARING)</p>	<p>Sidewinder (pre-1980) with 6.1 c.i. (100cc) max displacement, American fan cooled engine; single carburetor (Mikuni, Tillotson, or McCulloch), any size throttle bore; Factory V4 intake; modern tires; 56 durometer minimum; box muffler; vintage-style dry clutch (Horstman Rev Grip, Max-Torque, or Hartman dry clutch); #35 Chain Only. Effective 2019: West Bend-Only Class- Stock appearing West Bend 820 with stock bore and stroke (fan cooled), box muffler, small, single West Bend factory manifold and V4 reed cage with a 1" max throttle bore, HL carb, modern style tires. pre-1980 sidewinder with 1" axle, OEM Horstman, Hartman and Max Torque Dry Clutches only with no add-ons. To be run in concert with Sportsman S/W, but scored separately. For drivers 15 years or older. Max kart width of 48 inches. #35 Chain Only</p>
<p>16. YAMAHA PISTON PORT</p>	<p>Sidewinder karts (thru 1987) with single 100cc (KT100S), 1975 to present; piston port only; max. bore - 2.090"; max. stroke - 1.816"; "stock appearing" - internal modifications allowed; factory ignition system only (exception- "RVL" TCI replacement module OK); Walbro WB3A carburetor only; pipe allowed; Horstman DXL wet disc and Steel Nytro, Hartman, L & T wet disc, Burco, Max Torque clutches only (no modern clutches, except L&T and Steel Nytro); Third bearing support required; 1" or 1 1/4" axle; modern tires; 56 durometer minimum; gasoline only. Max kart width of 50 inches. 219-chain allowed. No carb triggers.</p>
<p>17. YAMAHA LIMITED</p>	<p>Sidewinder karts (thru 1987) with single KT100s, piston-port engine, max bore – 2.090" – max stroke = 1.816" – WKA stock specification guidelines to apply; factory ignition systems only (exception- RLV TCI replacement module allowed); Walbro WB3A carb with max 0.950" venturi; "limited" pipe (FY-Sr/K1/K2) at 12" minimum length (piston to start of first cone) no tapered headers; Horstman DXL and Steel Nytro, Hartman, L+T, Burco, Max-Torque clutches only; no modern clutches, except L&T and Steel Nytro; no direct drive or Tomar clutches; 3rd bearing support required; Max kart width of 50 inches. 219-chain allowed. No carb triggers. Modern tires; 56 durometer minimum;</p>
<p>18. STRAIGHT AXLE S/W (NON- WISHBONE FRONT AXLE)</p>	<p>Straight Axle Sidewinder/non-wishbone front axle frames; ENGINES: Period correct 100cc max; McCulloch, West Bend, Power Products; American engines can run open format (dual carbs, alky, pipes, wet clutches); Foreign engines to have single, 1" carb as manufactured, and must be produced prior to 1975. (See paragraph 6(c)iv for allowable foreign engines); TIRES: Vintage-style tires (square corners); 6" max width per durometer guidelines. CLUTCHES: period correct clutches (e.g., Rev Grip, Horstman, Burco, Hartman, Max-Torque. No disc clutches, no axle clutches. EXHAUST: Any can, period correct pipe, or box muffler. REAR AXLE: 1" only, unless manufactured with 1 1/4" from the factory. FUEL: Gas or alcohol. WEIGHT: No weight restrictions. 48" max kart width. TECH: No tech. CHAIN: #35. For 2020, the engine and clutch requirements will change to that used in class #15 (Sportsman SW) – tires to remain unchanged (vintage type).</p>
<p>19. OVER-60 YAMAHA LIMITED –</p>	<p>Sidewinder karts (thru 1987) with single KT100s, piston-port engine, max bore – 2.090" – max stroke = 1.816" – WKA stock specification guidelines to apply; factory ignition systems only (exception RLV TCI replacement module allowed); Walbro WB3A carb with max 0.950" venturi; "limited" RLV pipe (FY-Sr/K1/K2) at 12" minimum length (piston to start of first cone) no tapered headers; Horstman DXL, Steel Nytro, Hartman, L+T, Burco, Max-Torque clutches only; no modern clutches except L&T and Steel Nytro; no direct drive or Tomar clutches -- 3rd bearing support required -- Max kart width of 50 inches -- 219-chain allowed -- Vintage Speed Tires only (11-350-5---11-450-5---11-600-5) --- this class should NOT be combined with over 60 (class 12) in case some are running both. No carb triggers.</p>
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20. DUAL YAMAHA	Sidewinder 200cc Yamaha only; (KT100S engines - 1975 to present); max. bore-2.090"; max. stroke - 1.816" ; "stock appearing" -- internal modifications allowed; factory ignition system only (exception -- "RLV" TCI replacement module OK) -- Walbro WB3A carburetor only; pipe allowed; Horstman DXL wet disc, Steel Nytro, Hartman, L & T wet disc, Burco, Max Torque clutches only; Third bearing support required; 1" or 1 1/4" axle; modern tires; 56 durometer minimum; gasoline only. Max. kart width of 50 inches. 219-chain allowed; engine clutches only; modern tires -- May use any approved single sidewinder tire (see par. 6b, below) -- 1 1/4" axle allowed if original -- karts must be manufactured prior to 1987. No carb triggers.
21. 4-CYCLE STOCK	1987 or older karts; 16 or older drivers; catch tank required; chain guard; Briggs & Stratton; 5hp; Raptor-style Flathead; stock carb & gas tank; Carb max dia. 0.696" "no-go" ; Recess on engine side -- .725" No-Go -- .600" max length on short side; bore 2.625" "no-go"; stroke 2.440 "no-go"; intake valve 1.126" "no-go"; exhaust 1.010" "no-go"; no titanium valves; max cam lift 0.234" (check as run); flywheel stock B&S (#555667) no modifications (min. wt. 6#-4oz.); modern tires OK (56 min. hard-ness); period correct dry clutch; RLV B91 exhaust; 1" or 1 1/4" rear axle OK; Gas or alcohol OK (no performance enhancing additives (e.g. nitro); no weight restrictions, tech allowed; #35 chain.
22. 4-CYCLE MODIFIED	Briggs & Stratton; 5hp; Raptor-style Flathead; Tillotson carb allowed; 0.900" "no-go" venturi max; any manifold; external fuel pump allowed (must be pulsed from manifold; bore 2.645" "no-go"; stroke 2.440 "no-go"; intake valve 1.125" (plus or minus 0.010") "no-go"; exhaust 1.00" (plus or minus 0.010") "no-go"; no titanium valves; no cam check; no stock flywheels; billet flywheel mandatory (min. wt. 4.05#-); modern tires OK (56 min. hardness); period correct dry clutch; RLV B91 exhaust (outlet holes 0.1285" "no-go); 1" or 1 1/4" axle OK; Gas or alky OK; no performance enhancing additive (e.g. nitro); no weight restrictions; tech allowed; #35 chain.
CLASSIC DIVISION	
For karts and engines 30 years old (or older) (for 2019, 1989 and before) Modern tires OK – 56 durometer minimum (Unlimited--48 durometer minimum) period correct engine and axle clutches allowed, period correct exhaust , period correct rear axle, gas or alcohol OK, (no performance enhancing additives (i.e. nitro), #35 or 219 chain, max kart width 50", no weight restrictions.	
23. 100cc	Foreign or American engines, 6.1 c.i. (100cc) max displacement. Can be run with class 14, but scored separately.
24. 150cc	Sidewinder with Foreign or American engines -- 150cc max -- can be run with Class 11, but scored separately.
25. Vintage Unlimited	Sidewinder with Foreign or American engines, 18.3 c.i. (300cc) max displacement -- Tire compound durometer minimum of 48 allowed -- 1 1/4" axle allowed if original -- K99 -- K299 -- K29 -- K-30 -- K35 -- TKM 135 -- TKM 150 -- PCR 135 -- DAP T60 -- DAP T62 engines allowed in this class. Can be run with class 13, but scored separately.

Drivers who weigh 190 pounds or more at Registration, may be place in a "vintage weight" sub-class as a Promoter's Option.

Class #16 "Yamaha Piston Port" is still divided into "light" and "heavy" at Brodhead.

Light class is driver under 190 lbs.
Heavy class is driver 190 lbs. and over.