

# ROAD AMERICA KARTING CLUB RULES

## 2 CHAMPIONSHIP KART RACING SERIES

Weekend Series	Tuesday Evening Series
<p><b>All Classes 2 Cycle and 4 Cycle</b></p> <ul style="list-style-type: none"> <li>- Kid Karts - 50cc</li> <li>- Briggs 206 Sports</li> <li>- Briggs Animal Sports</li> <li>- Briggs 206 Lite</li> <li>- Briggs 206 Heavy</li> <li>- Briggs Animal</li> <li>- Yamaha Sports</li> <li>- Yamaha Lite</li> <li>- Yamaha Heavy</li> <li>- KA100 IAME Senior</li> <li>- Komet Junior (HPV renamed)</li> <li>- Komet Senior (HPV renamed)</li> <li>- T.A.G.</li> <li>- Rotax DD2</li> <li>- Shifter</li> <li>- Stock Honda Shifter</li> </ul>	<p><b>Only 4 Cycle and Kid Kart Classes</b></p> <ul style="list-style-type: none"> <li>- Kid Karts - 50cc</li> <li>- Briggs 206 Sports</li> <li>- Briggs Animal Sports</li> <li>- Briggs 206 Lite</li> <li>- Briggs 206 Heavy</li> <li>- Briggs Animal</li> <li>- Briggs World Formula</li> <li>- Kohler CH270 Super Stock</li> </ul>

<p>Weekend Series Gate 4 - Opens 9am / Racing at Noon Weekend night races Gate 4 opens 3pm / Racing at 5:30</p>	<p>Tuesday Series Gate 4 - Opens at 4pm / Racing at 6:30</p>
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Rev 04/11/18

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**This rule book is not intended to cover all aspects of the kart club; it will be used as a guide unless it's a clear-cut decision, and will be used in conjunction with the WKA rules book.**

# 1. Class Requirements

- 1.1 Detailed class rules:  
Refer to: Road America Karting Club - 2018 Class Rules document
- 1.2 Age:  
- Age as of May 1<sup>st</sup> determines which class you can participate in. Adjustment to move up a class, driver must be within one year of age class and have approval by Race Director.
- 1.3 Engines:  
- Engines are subject to tech inspection at any time, refusal of inspection from tech official will be Immediate disqualification of points for the entire season, and may result in a suspension.
- 1.4 Fuel testing:  
- No additives of any kind are allowed (any derivatives of nitro or oxidizers are illegal).  
- All methanol classes will go thru pump around system (arrive with amount of fuel you'll be using).  
- All gas classes may be tested using a Digitron fuel meter (spec oil is Burris Castor or Burris Blend, no oil spec for TAG, DD2 & Shifter classes).  
- All 4 cycle gas classes, must use gas station pump gas (must retain natural color) NO racing gas, NO adding of methanol or any other liquid fuel (must remain as it came from the pump) water testing and lab testing may be done. Penalty for illegal fuel is a non-droppable disqualification.
- 1.5 Mufflers:  
- All classes must use unaltered authorized mufflers, must be removable from pipe (no welded on).  
- 4 cycle classes must use an RLV #B91 muffler.  
- Yamaha Sportsman class must use RLV #7543 (4 holes spaced between 12 and 3 o'clock) or RLV #7548 (4 holes spaced 90 degrees of each other).  
- Yamaha Lite and Heavy classes must use a RLV SR-Y pipe with a #9110 header.
- 1.6 Clutches:  
- No axle clutches allowed. 4 cycle classes any dry type clutch allowed, all other classes must use WKA authorized clutches.
- 1.7 Bodywork:  
- All karts must have bodywork (nose & side pods minimum) to be allowed on the track. Bodywork must conform to either WKA Manufactures Cup or Gold Cup specifications.
- 1.8 Bumpers:  
- Full width rear bumpers (plastic or steel) are required.  
Front, rear bumpers and nerf bars to be made from round steel tubing (0.63 O.D. x .065 wall minimum) and all corners must have a radius (no sharp edges & no square tubing).
- 1.9 Numbers:  
- Karts must have their number on all four sides, minimum of 5 inches tall and visible to Race Officials.
- 1.10 Tires:  
- See above for tire specifications by class.  
- **Only untreated tires are allowed.** No altering of any kind allowed.  
No washing or cleaning of tires at the track, wire brushing or scraping to remove debris or rubber build up is allowed. Application of chemical mixtures/sprays, heating/cooling blankets, and/or any other tire applicant is not allowed.

1.11 Tire Testing:

- Tire testing may include, but is not limited to, any combination of the following practices; comparing durometer readings, visual inspection, sniffer testing, painting inside, lab testing.
- The Race Director will make final decision on tire legality or may impose a warning or impound tire(s) for storage.

The minimum penalty for violating the tire-treatment ban will be a suspension for 30 days or the next two RAKC points races, whichever is greater. Suspension days will include non-race days.

- Suspensions cannot be used as drop races. Penalties for subsequent violations of the tire-treatment ban will increase in severity and be dealt at the discretion of the Race Director.

1.12 Tire Changing:

- Changing tires after your first race is not permitted.
- Unless you have a damaged tire, then the changing of a tire must be approved by Race Director before it can be changed and only damaged tire can be replaced).

1.13 Club Sponsor Decal:

- Club members will be required to place Series sponsor "Trudell Performance" sticker on their kart (Sticker will be provided).

1.14 Seat placement:

- No seat can be located rearward of a vertical plane at the rear of the rear axle. Checked when kart is on the ground by placing a square up against the rear surface of the axle.

## 2. General Rules

### 2.1 Waivers:

- Waivers are required for Everyone entering Road America property.
- All participants must have all waivers, and entry fees completed before competing in any events.  
Note: proof of age is required for all minors.

### 2.2 Driving karts in the pits:

- No driving of karts in the pit area.
- Karts can be driven only when leaving grid on the track or on track exit lane. Karts will be pushed to the grid and pushed to the scale on the exit lane.

### 2.3 Pitting on the asphalt:

- No pitting on the asphalt, only on grass or gravel areas.
- Pit stalls are not reserved and are on a first come first serve basis.
- Teams observed pitting on the asphalt will receive either a verbal and/or written warning from the Race Director for the race day. Subsequent offenses will result in penalties assigned at the discretion of the Race Director, increasing in severity with each offense (examples: starting at the back of the days races, no points for the day, asked to leave the Road America grounds)

### 2.4 Unsportsmanlike conduct:

- Unsportsmanlike conduct, i.e. abusive and/or foul language, fighting, refused cooperation, etc. will not be tolerated.
- Anyone exhibiting such conduct will be disqualified from the event and required to leave the facility, and is subject to further disciplinary action.

### 2.5 Rough Driving:

- Rough driving will not be tolerated at any time.
- Anyone intentionally bumping, hitting, chopping, blocking or driving in an out of control manner, will be warned, penalized, disqualified or suspended depending on the severity of the incident.

### 2.6 Entering Timing & Scoring building:

- No one can enter the timing and scoring building without permission from a race official.
- Failure to comply with this could result in disqualification from the event.

### 2.7 Alcohol:

- Alcoholic beverages are not allowed on the grid or track during any events, no driver or crew member can drink alcoholic beverages during an event, only after your done racing and in a responsible manner.

### 2.8 Spectators:

- No spectators are allowed on the grid or track during the event.
- A driver or pit pass arm band must be shown to security to gain access to Grid / Hot Pits.

### 2.9 Parents reasonability for minors:

- Parents or Guardians are to be responsible for any children they brought to the races.
- For example; don't let them run around unsupervised.

### 2.10 Hot track access age restrictions:

- No person under the age of 16 can enter the track or infield areas while the track is occupied, unless said person is accompanied by a parent or guardian.
- This includes flagging volunteers and driver spectating.

### 3. Safety Rules

#### 3.1 Kart & Pit area Safety:

- Driver/Crew: are always responsible for safety of the kart and pit area.
- They must keep all non-crew people away from any running or hot karts.
- Note: Stay clear of any rotating parts i.e. wheels, chains, stay clear any hot parts i.e. exhaust pipes, brake rotors etc.

#### 3.2 Starting engine:

- Driver must be in kart prior to starting engine or Kart must be on a secure kart stand.

#### 3.3 Safe kart driving:

- No driving of kart until marked hot grid and will be at minimal speed until on track.
- Drivers must always operate their kart in a safe manner and adhere to all flags and instructions given while on track.
- When exiting the track, slow down until you are at a safe minimal speed, stop short of kart in front of you by 3 or 4 feet, turn off engine and push kart over scales.

#### 3.4 Blend line during practice:

- During practice, drivers need to stay to the left of blend line when entering track until it ends and safely merge onto track.

#### 3.5 Mechanical problems:

- Drivers must use hand signals to warn other karts (put one hand straight-up not out to the side of kart) attempt to get off racing surface in a safe manner, if a brake failure occurs do not pull into pits, drive around until kart is at a slow enough speed to safely pull off.

#### 3.6 Disabled karts:

- Attempt to move kart farther away from racing surface to a safer area if possible.

#### 3.7 Additional weight:

- All added weights must be painted white and securely fastened (5/16 bolt min. double nutted or pinned) When fastening weights to your kart, there must be a minimum of 1/8 inch beyond the last retaining nut if double nutted.
- If a single weight or combined weights are greater than 10.5 pounds, a single 3/8" inch bolt or two 5/16" inch bolts must be used.

#### 3.8 Drivers Safety Equipment:

- Helmet (Snell 2010 or higher rating) with hard shield.
- Racing suit or racing jacket with long abrasion resistant pants.
- Proper driving shoes (no sandals or loafers).
- Gloves: full coverage of hand, made of suitable material.
- Neck collar: racing type
- Rib/chest protectors (mandatory for Kid Karts and Sports classes).

#### 3.9 Corner Workers:

- We need crew members, pit pass holders and drivers to volunteer for corner workers, a minimum of 3 corner workers per race must be on the track before race can begin.

- 3.10 Pre-Tech safety check:
- All karts must have a Pre-Tech safety check and receive sticker, before getting on track for practice or competing in races.
  - It's your responsibility to keep all safety equipment intact during the entire season, a safety check may be done at any time during the season.
- 3.11 Rookies:
- For all classes inexperienced drivers may have to start in the rear of the field until approved by the Race Director. For first year drivers in the Sports and Junior classes, you must adhere a visible X on the back of their helmet (use yellow or some other contrasting colored tape).
- 3.12 Starting the back of the grid:
- Any driver may request to start in the rear of the field, and is recommended if you feel your equipment or ability may impeded the rest of the field at the green flag, start in the back until you feel comfortable.
  - If you prefer the start in the back of the grid, please write that on your registration slip and let Timing and scoring know as well.
- 3.13 Race Director – Safety authority:
- The Race Director reserves the right to ban or move any driver from a class in the case of a safety issue
- 3.14 Driver Responsibilities:
- All Drivers are responsible for meeting the rules and regulations for the track. Failure to do so may result in a disqualification.
- Drivers are also responsible for the actions of their crew.
- You can purchase a WKA rule book at [worldkarting.com](http://worldkarting.com) in the Store under printed materials or ask the track director to view the rules.

## 4. Race Day Procedures

### 4.1 Race Format:

- 2 heat races of 5 laps each (Kid Karts 5 Minutes Each)
- 1 feature race of 10 laps. (Kid Karts Feature is 10 Minutes)

### 4.2 Heat race grid position:

- Heat 1 - Random computer draw
- Heat 2 - Inverted positions from starting position in Heat 1.

### 4.3 Feature race grid position:

- Based on points earned in heat races, most points start on pole and so on.
- In event of a tie in heat race points, fastest lap times in either heat will get higher starting position. -
- Pole position decides line up for the front row.

### 4.4 Transponders:

Timing and scoring will be using the AMB TransX 160 transponder system. It's your responsibility to have a charged and working transponder on your kart.

You can purchase them at [www.mylaps.com](http://www.mylaps.com).

#### 4.4.1 Transponder Rental:

We have a limited number of rental transponders which are rented on a first come first serve basis. (Transponders must be rented at registration & picked up in Timing & Scoring building.) A Credit Card is required for deposit when transponder is picked up in Timing & Scoring

### 4.5 Transponder Placement:

The transponder must be mounted vertically on the inside of your left side pod or seat. It must be mounted a minimum of 9 inches back from the left side kingpin bolt of the spindle, to the front side of the transponder.

### 4.6 Total Race Points:

All points earned from both heat races and the feature are combined for total points for the event.

Position	Heat Races	Feature Race
1st	25	100
2nd	22	80
3rd	19	70
4th	16	65
5th	13	60
6th	11	55
7th	9	50
8th	7	45
9th	5	40
10th	4	38
11th	3	36
12th	2	34
13th	1	32
14th	0	30
15th	0	28
16th	0	26
17th	0	24

- 4.7 Points Qualification – Green Flag  
- Any kart that receives the green flag under its own power but doesn't finish the race will be scored.
- 4.8 Points Qualification – Meat ball Flag  
- Any kart that receives the meat ball flag (mechanical or safety) will be scored.
- 4.9 Points Disqualification  
- Any kart that is disqualified post-race (technical inspection) will not receive any points for the event.
- 4.10 Dropping a Race:  
- Competitors cannot drop a race event were they were disqualified for in post-race technical inspection.
- 4.11 Black Flag:  
- Any kart that is black flagged from the race must safely exit the track on the exit lane and report to the scale, the driver will be informed by the Race Director of what action will be taken for the driving infraction, which will include position penalty (last place points) or zero points for that race.  
- Any repeat offenders are subject to a non-droppable disqualification or race suspension.
- 4.12 Penalties & Warnings:  
The Race Director reserves the right to impose warnings or penalties on any karts that have been seen first-hand or by an official breaking any rules, including driving infractions.
- 4.13 No-Show on Grid:  
When there is a no show for grid position the line of karts directly behind open spot will move up.
- 4.14 Multi-Class Race Grouping:  
Classes may be grouped with another like speed class, but will be scored separately and in most cases, will have a split start.
- 4.15 Driver's responsibilities on race starts:  
- Kart in pole position shall set a reasonable pace to the starting cone.  
- The kart starting in second, shall keep pace with the pole kart. Pole position decides line up for the front row.
- 4.16 Jumped starts:  
- The flagman has control of the race start if there is a waved off start caused by the front row karts, one more attempt will be made, if they were the cause of another waved off start they (both karts) shall be placed in the back row of the field.  
- For split group starts the race director reserves the right to impose a penalty for jumping the start. Penalties may include a warning, position penalty or disqualification depending on the severity of the incident.  
- The Race Director may implement a standing start for any problematic race group(s).

4.17 Scaling:

All karts must go over scale after every race to be scored for that race, any kart that doesn't get scaled or doesn't meet minimum class weight will receive zero points for that race.

If you fail to make weight you will be able to pull off scale and have another competitor weigh in, then try one more time, if you fail to make weight again and the scale is deemed accurate by the scale operator, you will receive zero points.

To retain your position in the next race the kart must be rescaled before the next race and certified by the scale operator to be at a legal weight, otherwise you will start at the back of the grid.

Note: no one other than driver and scaling official(s) are allowed in scale area during weigh in.

4.18 Flagging:

If you have any questions about the flag usage, see RAKC Flags & Definition document for further detailed flag usage.

4.19 Yellow flags:

- When a yellow flag is displayed as a warning "local yellow" (flag is held at waist height and not waving). No passing is allowed until past the reason for the local yellow. (Example: disabled kart(s) ahead but not on racing surface).
- When a yellow flag is displayed as a "waving yellow" (waving flag above shoulder height wildly). (i.e. blocked track or bad accident) Driver must slowdown, no passing is allowed until past the reason for the waving yellow, look ahead for flagging instructions or hand instructions, when approaching flag stand if red flag is displayed come to safe controlled stop.

4.20 Red flags:

If the race is to be restarted after a red flag, karts grid position will be based on lap prior to the red. (Race Director/Flagman will determine if race will be restarted) all restarts will be single file.

4.21 Rain outs:

If all the heats from all the classes have been completed the race is official, if within 2 heats of finishing all heats, the 2 heats will be run before the next race day to make race final. Points for rained out features will be determined by your grid position from the heat races. After a rain delay, lap totals for races may be lowered due to time restraints. If race is rained out and cannot be made up, it will be dropped from the schedule. Your drop race(s) from the final points will remain.

4.22 Final Championships standing:

Final championship standing will be determined based on culminative point in each series after drop(s). Both the Tuesday Night series and Weekend series allow 1 drop per season per series.

4.23 Final Championship standing - Ties

Ties in season ending points will be decided on 1<sup>st</sup> on most feature wins, 2<sup>nd</sup> on highest finishing position in the season ending feature race.

4.24 Protests:

- All protests must be presented to the race director.
- Note: approaching any other official could lead to a disqualification i.e. (yelling at the scale, scoring or the flagman will not be tolerated).

4.25 Video Footage:

- Video footage provided by a competitor will not be viewed by the Race Director or any race official as evidence against any protests of on track incidents.
- Road America Karting Club reserves the right to request video footage from competitors that may depict an on-track incident for insurance purposes.

4.26 Years end awards requirement:

- To receive any year end awards, you must participate in at least half of the season's races and your class must retain at least 3 entries in half of the races for the season.

4.27 Registration Slips:

Registration slips must be handed in as soon as possible at the timing and scoring building, Timing and Scoring must have your registration slip prior to entering the track for practice. Late entries may have to start in the back of both heats. Tuesday evening series cutoff time is 5 pm. Weekend Series cutoff time is 11 am (4:30 pm for night races). If you know you will not be able to have registration slip turned in by the cutoff time. Please reach out to the Chief of timing and scoring prior to race day.

**This rule book was not intended to cover all aspects of the kart club; it will be used as a guide unless it's a clear-cut decision, and will be used in conjunction with the WKA rules book.**

## Road America Karting Club - 2018 Class Rules

Kid Kart Classes	Age	Weight	Tire	Fuel	Engine	Restrictions
Kid Karts <i>*both series</i>	5 - 7	150 170	YKC, YHC or YLC	Gas & Oil Gas only	Briggs 206 Junior or Comer C50/51	WKA 709 tech rules See Footnote #1 & 2
4 Cycle Classes <i>*both series</i>	Age	Weight	Tire	Fuel	Engine	Restrictions
Briggs 206 Sports	8 - 12	260	YDS	Gas only	Briggs Local Option 206 Engine only	Green Slide #555740 w/ Carb Lock WKA 708 rules See Footnote #2 & #3
Animal Sports	8 - 12	260	YDS	Methanol	Briggs & Stratton Animal WKA Tech Rules	Gold Plate .505 Plate # 4344
Briggs 206 Lite	12 +	310	YDS	Gas only	Briggs Local Option 206 Engine only	Yellow Slide #555741 w/ Carb Lock WKA 708 rules See Footnote #2 & #3
Briggs 206 Heavy	15 +	375	YDS	Gas only	Briggs Local Option 206 Engine only	WKA 708 rules See Footnote #2 & #3
Animal	12 +	330	YDS	Methanol	Briggs & Stratton Animal WKA Tech Rules	WKA Tech Rules
4 Cycle Classes <i>*Weeknight series only</i>	Age	Weight	Tire	Fuel	Engine	Restrictions
Briggs World Formula	12 +	410	YDS	Gas only	Briggs World Formula Faster Motors Tech Rules	See Footnote #3 & #4
4 Cycle Classes <i>*Weeknight series only (even numbered races)</i>	Age	Weight	Tire	Fuel	Engine	Restrictions
Kohler Super Stock	15 +	360	YDS	Gas only	Kohler CH270 4 Cycle See Kohler Tech Rules	RLV B91 Muffler
2 Cycle Classes <i>*weekend series</i>	Age	Weight	Tire	Fuel	Engine	Restrictions
Yamaha Sports	8 - 12	250	YLC	Gas & Oil	Yamaha KT100S WA55B Carb & Manifold	RLV SSX Muffler # 7543 or # 7548
Yamaha Lite	12 +	320	YLC	Gas & Oil	Yamaha KT100S WKA Tech Rules New or old cylinder allowed	RLV SR-Y Pipe # 9110 Header
Yamaha Heavy	15 +	360	YLC	Gas & Oil	Yamaha KT100S WKA Tech Rules New or old cylinder allowed	RLV SR-Y Pipe # 9110 Header
IAME KA100 Senior	15 +	360	YLC	GAS & Oil	IAME KA100 w/ Factory Airbox Exhaust: As Supplied by Manufacturer	Carburetor: "IAME" Tillotson HW-33A
Komet Junior (HPV)	12 - 15	310	YLC	Gas & Oil	Komet Piston Port (HPV) WKA Tech Rules New or old clutch allowed	KPP#3 Carburetor KPP#2 Pipe Only Tires 4.5" front - 6.0" rear
Komet Senior (HPV)	15 +	340	YLC	Gas & Oil	Komet Piston Port (HPV) WKA Tech Rules New or old clutch allowed	KPP#3 Carburetor HPV or KPP#2 Pipe Flex min 10.00" Tires 4.5" front - 7.1" rear
T.A.G.	15 +	WKA	YLC or YLM	Gas & Oil	Engine & Weights Per WKA (see below)	WKA Tech Rules
Rotax DD2	15 +	385	YLC or YLM	Gas & Oil	ReMax Challenge Rules	ReMax Challenge Rules
Shifter & Stock Honda Shifter	15 +	400	YLC or YLM	Gas & Oil	WKA	

TAG Weights:

BM Jaguar - 350#	Cheeta SQ124 - 350#	Comer K365 380#	Easykart 350#
Motor Seven 365#	Parilla Leopard 365#	Rotax FR125 365#	Sonik TX125 380#
Sonik VX125 365#	Vortex Rok 350#	Vortex Rok TT 380#	PRD fireball 350#
Parilla X30 370#			

Footnotes:

- 1: - Max Throttle opening .310 inches
  - **LO206** Gear Ratio 17/57 and #35 chain
  - **Comer** Gear Ratio 10/89
  
- 2: -No tape or other means of blocking air to the shroud is allowed
  - Header must be wrapped
  - Only Stock jets are allowed (No drilling or reaming) #32 pilot jet, #1.50 main air jet, #2.6 main nozzle, #95 main jet
  - Briggs & Stratton Green air filter
  
- 3: - Any rim centrifugal clutch with a maximum of 9 springs and 6 shoes.
  - No alteration to clutch allowed, except springs. Clutch coolers not allowed.
  
- 4: -Engines must be factory stock and sealed by Faster Motors
  - Must use unmodified factory pipe and unmodified 5447S-K-8 Silencer
  - Must use medium grade pump gas with an octane rating of 91 Ron + Mon / 2
  - See Faster Motors Tech Rules for further specifications

## RAKC Flags & Definitions

Light	Flag	Meaning	Where/When Displayed
	 Waving Green	Race has begun/restarted; Passing is allowed	By Starter At beginning of session
 Solid Green		Track is clear in this sector	By Lights Displayed only in the sector(s) that affected
 Solid Yellow	 Standing Yellow	Problem is off track or in next sector/slow kart ahead	By Starter, Lights, or Flagger Displayed only in the sector that is affected
 Blinking Yellow	 Waving Yellow	Problem in this sector; NO PASSING ZONE DECLARED SLOW DOWN No passing till past problem	By Starter, Lights, or Flagger Displayed only in the sector that is affected
 Blinking Yellow	 Double Yellow	Full Course Caution; NO PASSING FULL COURSE SLOW DOWN	By Starter (Double Yellow), All Flaggers (Waving Yellow), and All Lights (Blinking Yellow) Used in circumstances not warranting a Red Flag
 Red	 Waving/Standing Red	SESSION HALTED; Pull over to a stop at drivers' right Wait for further instructions	By Starter, Lights, and Flaggers. At direction of officials
 Alternating Red/Yellow	 Standing Surface	Surface conditions have changed	By Starter, Lights, or Flaggers. At Marshall's discretion Displayed for max 2 laps, then withdrawn
	 Furled Black	Warning issued to driver(s)	By Starter At direction of Race Director
	 Black	Report to scales immediately; penalty issued	By Starter At direction of Race Director
	 Meatball	Report to scales immediately; mechanical or safety issue	By Starter At direction of Race Director
	 Standing Blue	Faster traffic approaching; may overtake later in lap	By Starter At Starter's discretion
	 Waving Blue	Faster traffic approaching; may overtake very soon	By Starter At Starter's discretion
	 White	Final Lap	By Starter At start of final lap
	 Checkered	Session Complete; Exit track at scales	By Starter At conclusion of session