



2026 KARCS Park Flier Racing Rules



Kitsap Aircraft Radio Control Society 2026 Park Flier Racing Rules

Version 1.13

Schedule

1. The 2026 racing season begins on the first Saturday in April and runs through the first Saturday in October 2026. Races occur on the 1st Saturday of every included month starting at 10:00.
2. On the last Saturday of March there will be a clinic held at 10:00 at the field. The rules, aircraft specifications and other aspects of the racing season will be discussed. (This is a great time to get your questions answered.)

Personal Safety Requirements

AMA safety rules require all participants in racing events to wear safety helmets. This includes pilots, lap counters, helpers, judges, and CD during racing heats.

Equipment Requirements

1. All competitors will fly identical eFlite 1.1m T-28 Trojan park fliers with stock landing gear and stock propeller. The older Park Zone 1.1m T-28 may be flown with the following modifications: Timing must be set to 10 degrees and rpm may not exceed 8300 when tested as in (5) below.
2. Use of the landing gear is required. Landing gear must be the original gear supplied with the aircraft and must be attached to the bottom of the fuselage/wing producing drag.
3. Aircraft must weigh a minimum of 30oz. ready to fly with battery installed.
4. The battery must be a Lithium Polymer (Li-Po), 3S1P (11.1 volts nominal) with a maximum voltage of 4.21v per cell at start. All maximum and continuous discharge rates are allowed.
5. RPM must not exceed 8300 rpm on a bench after continuous max throttle for 5 seconds with a fresh racing battery and stock prop.
6. External airframe components must remain stock with no plan form dimensional changes.
7. Weight and RPM may be spot checked at the discretion of the Racing Coordinator or if speed is challenged by other racers.

Aircraft Identification

1. Each aircraft of a heat/section shall have attached a short different colored streamer to identify aircraft to the judges. For streamers use all aircraft will be required to carry a (minimum) three foot (3') streamer on a (minimum) two foot (2') string. Each streamer must be of a unique color. Aircraft need have available an attach point for the streamers. Streamers will have a swivel type fishing pin closer used to attach to the aircraft attach point.



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2. Streamers will be supplied by the Contest Coordinator and attached prior to each heat.

Race Operations

1. Two poles will be spaced in alignment with the ends of the fabric runway, near the middle of the race course (the grassy area.) The poles are to be placed in a location to the west of the runway between the tree line and a safe distance beyond the runway.
2. Each race day there will be three (3) Heats
3. Each Heat will consist of seven (7) laps around the course.
4. Number of planes per Section.
 - a. No more than six (6) aircraft may participate in any given Section.
 - b. If more than one Section per Heat is required (see (a) above), the number of Sections per Heat will be established to maintain the most equal number of planes possible per Section, while complying with rule (a). For instance:
7 aircraft: one Section of four (4), and another of three (3) aircraft.
8 aircraft: two Sections of four (4) aircraft each.
etc.
 - c. Each aircraft will participate in only one Section per Heat.
 - d. Aircraft will be lined up in their starting boxes as instructed by the CD, and I.A.W. Illustration 2 or 3: Illustrations of correct aircraft positioning within the box, found in **Appendix A: Starting Grid Layout**.
5. The starting positions for the first heat of the first race of the season will be chosen by lot. The entire grid for all required sections will be established by the order in which aircraft numbers are drawn or show-up order at the field, Contest Directors option. Beginning with the May races starting grid positions will be determined by the current overall standings of the pilots. This should help those less skilled pilots earn more points. Each new month the starting positions for the first heat of the day will be according to your current overall standing. i.e. first place standing will be pole position first section, first heat, second place standing will be #2 position first heat and so-on. The remaining heats will be as described in 6 below.
6. Heats 2-3: The participants of each successive Heat/Section will form up in the order in which they completed the previous heat. Contest Director may combine sections if less than six racers remain competing.

Race Starting Procedure

1. Kitsap ARCS Park Flier Racing start will follow the Formula One Auto Racing model. The aircraft will be lined up on the runway in a starting grid, with the "pole" position (the aircraft which won the lottery or the last heat/section) in the front row, on the far side from the pilot's stations (the west side of the runway.)
2. There will be a 3 second countdown for the start of each Section. Racers leaving the starting position before the CD shouts "GO!" must perform a penalty orbit of the first pole they encounter after being called on the penalty. Failure to comply will result in forfeiture of any points for that Section.
3. Each pilot shall call off the completed lap number as they pass the start/finish line, where the CD will be located. On the 7th lap you must call out "7" and your pilot's name. The CD must hear your lap calls, and your pilot name on the 7th and final lap to be officially recorded, be loud.

Northbound Start

1. A northbound start involves the aircraft starting in the direction of the race circuit.
 - a. The race begins when the CD completes the 3 second countdown and shouts "Go!" All racers shall take off and commence the race in a counter clockwise direction around the poles.
 - b. Race timing, if timed, shall start at the moment the CD completes the countdown and shouts "Go!"



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- c. As each pilot passes the start/finish line the next time, he/she will call out "ONE", indicating that they have finished the first lap of racing. Pilots shall call each consecutive lap until complete.
2. The race timing, if used, stops when the first pilot crosses the start/finish line after completing their 7th lap.
3. The race is complete when the final aircraft crosses the finish line, or when the CD calls the race. The race can be called if
 - a. An injury has occurred
 - b. All aircraft are on the ground.

Southbound Start

1. A southbound start involves the aircraft starting in the opposite direction of the race circuit.
 - a. The CD will complete the 3 second countdown and shout "Go!" At that time, all racers shall take off and bear right to perform a counter-clockwise turn around the south pole (on the left wing of the aircraft.) This is the only time that your aircraft must actually go around the pole.
 - b. Upon completing the turn around the south pole, the racers will head for the north pole.
 - c. As each pilot passes the start/finish line, he/she will call out "ZERO", indicating that they have passed the start/finish line and are now racing. Pilots shall call each consecutive lap until complete.
 - d. Race timing, if used, shall start at the moment the first pilot crosses the start/finish line.
2. The race timing, if used, stops when the first pilot crosses the start/finish line after completing their 7th lap.
3. The race is complete when the final aircraft crosses the finish line, or when the CD calls the race. The race can be called if
 - a. An injury has occurred
 - b. All aircraft are on the ground.

Disqualifications/Penalties

1. Any pilot who flies between the runway and the pilots' stations, within the length of the runway, at any time will be immediately disqualified.
2. Failure to orbit a pylon after a cut will lose one final position in the heat.
3. Panes cutting the LAST pylon must: Return to and orbit that pylon BEFORE crossing the finish line, or lose one final position in the heat. (1st becomes 2nd, 2nd becomes 3rd, etc.)

Collisions

1. Any aircraft involved in a collision with another aircraft, the ground, or any other object are subject to disqualification by the CD. The CD will query the pilots as to the controllability of their aircraft and will observe the aircraft for indications of distress. If, in the opinion of the CD the aircraft's controllability has been compromised, the flier will be DQ'd and will be required to land.
2. After a collision, all aircraft involved, whether disqualified or not, will be subject to a safety check, and may require a test flight at the discretion of the CD before resuming racing.

Race Officials

1. Club President/Vice President shall appoint Kitsap ARCS Park Flier Racing Contest Coordinator (CD).
2. If the Park Flier Racing Contest Coordinator is unavailable on race day, one club member will be selected as Substitute Contest Coordinator for that day, by the Club President/Vice President.



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- a. In the event of a possible rule infraction or a pilots' dispute, the decision of the Contest Coordinator shall be final.
 - b. If the Contest Coordinator is a party to a dispute, a vote of the pilots present shall determine the dispute's resolution.
3. There will be a pylon judge for each pylon, stationed safely on the east side of the runway. Planes cutting a pylon must perform a penalty orbit of one pylon before completion of the race.

Test/Certification Flights

1. Any aircraft suffering damage requiring repair to wings, fuselage or flight controls will be required to make a test flight under the observation of the Contest Director before they will be allowed to participate in any further races.
2. The Contest Director may waive the test flight requirement if in his/her opinion the repair does not pose risk to flight worthiness.

Points System

1. Points are awarded on a per Heat basis. The following values shall be used:
 - a. 1st Place – 25 points
 - b. 2nd Place – 18 points
 - c. 3rd Place – 15 points
 - d. 4th Place – 12 points
 - e. 5th Place – 10 points
 - f. 6th Place – 8 points
2. Points will not be awarded under the following conditions:
3. Any racer that fails to land on or near the runway at completion of the race.
4. Any racer who flies outside the approved field flight area at the discretion of the CD. The offending racer must remain clear the race area until the race finishes.
5. Any racer who damages the runway will have 50 **penalty** points deducted from their score. Damaging a pylon will result in 10 **penalty** points being deducted from the pilot's score. These points will be deducted from the pilot's overall score for the year.
6. There will be an award given to the first three highest overall accumulated points for the season.
7. All racers who participate will be assigned their end of year standing via the club website.

Rules Changes

1. Any rule other than
 - a. the points rule
 - b. number of aircraft participating in a single heatcan be changed by a majority of participating pilots the day of the race.
2. Rule changes arrived at in this manner are only in force for that race day.
3. Permanent rule changes will be made by a majority of the members at a club meeting after the rule changes are discussed.



Appendix A: Starting Grid Layout

The Kitsap ARCS Park Flier Racing grid is set up to allow both northbound and southbound starts using (largely) the same set of grid makers. The grid is composed of four rows of two grid places each, with side by side positions staggered a bit for safety.

The Northbound Grid

The following illustration shows the active grid boxes when performing a northbound start:

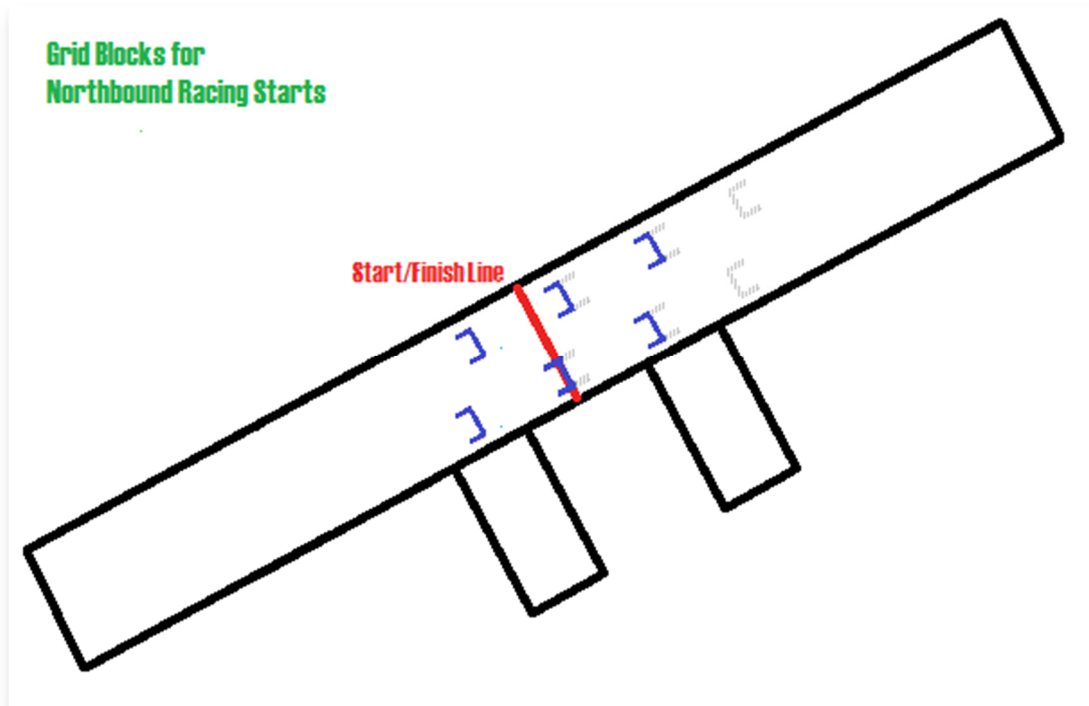


Figure 2: Northbound Starting Grid

Note that the southernmost three rows of grid positions are the ones in use. The contestants are lined up approximately centered on the runway. The northernmost pair of grid boxes is not used. Race starts at takeoff.



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The Southbound Grid

The following illustration shows the active grid boxes when performing a southbound start:

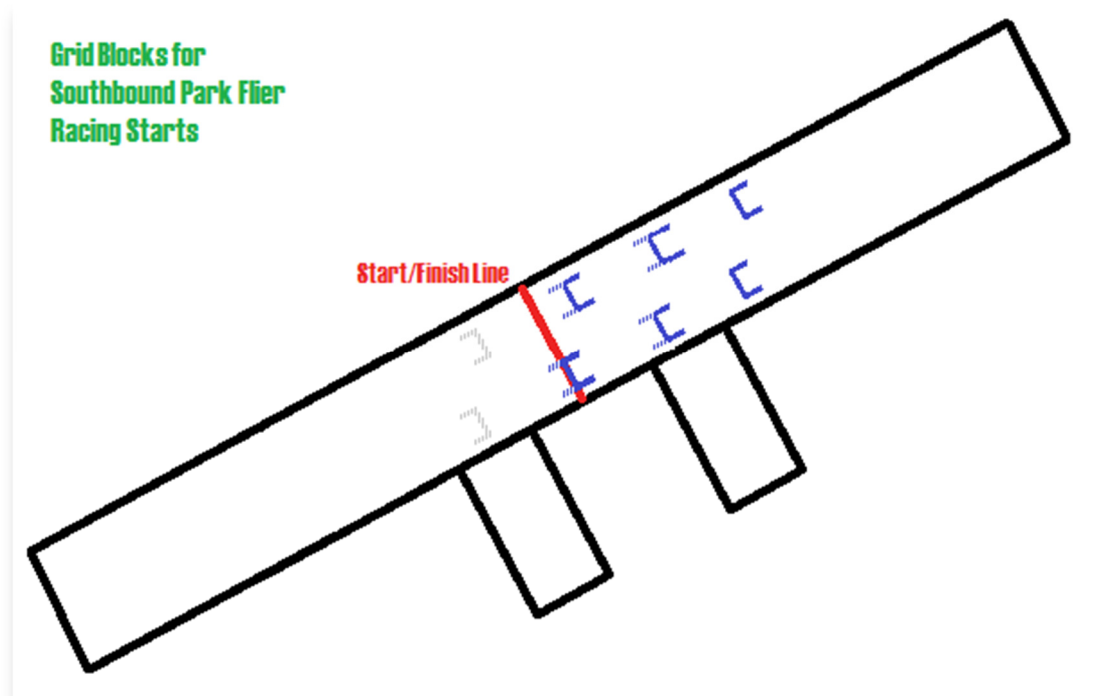


Figure 3: Southbound Starting Grid

Note that the northernmost three rows of grid positions are the ones in use. The southernmost pair of grid boxes is not used.

Also note that the contestants are lined up on the North end of the runway. This is intentional, as the racers need to negotiate a right turn prior to rounding the pole in a counterclockwise direction after takeoff, but prior to the actual start of the race, which is defined as the moment the first aircraft crosses back across the start/finish line after rounding the south pylon.

Positioning aircraft within the grid

Aircraft will be positioned with the nose wheel inside the position box or circle.



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Appendix B: Pylon Judges Instructions

Park Flier Racing requires judges on each pylon to insure that all racers complete the course for each lap. The following instructions shall be read to the selected judges for the event prior to the start of the first heat.

Pylon Judges Setup Instructions:

1. Judges must wear safety helmets.
2. Position yourself so that the end of the runway lines up exactly with the pylon.
3. Position yourself as far to the east side of the runway as is practical. In line with or next to the fence is ideal
4. Notify the CD when you are in position and ready to start.

Pylon Judges Race Operations Instructions:

1. Watch that each contestant flies **PAST** the pylon. Going **around** the pylon is not required. Failure to fly PAST the pylon constitutes a "cut."
2. When a contestant cuts a pylon,
 - a. Immediately sound a short blast on the air horn, then after the horn blast
 - b. **YELL** the color or number of the offending airplane. or if radios are used, immediately following the horn blast key the radio and speak the offending color. The CD or helper will monitor radio for color calls. It is critical that the airplane ID be loud and understandable.

If you have any questions ask now.



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List of Changes

Date	Version	Section	Change
01/21/2015	1	Disqualifications	Added rule outlines pilots' responsibility when cutting the last pylon.
03/07/2015	1.1	Airframe and DQs	Clarified battery maximum voltage and DQ for flying over the grass and pilot's stations.
Ditto	Ditto	Appendix A	Removed illustration and corrected grid layout description to specify square or circle.
Ditto	Ditto	Appendix B	Added pylon judges' instructions.
01/12/2017	1.2	Race operations	Changed #17 to use current standings after the first month for the starting grid positions each following month.
01/15/2017	1.3	Numerous	Updated to 2017, Added E-Flite T-28 which replaced the discontinued Parkzone model. Changed Contest Director to Contest Coordinator, and other minor clerical changes.
05/06/17	1.4	All	Made a complete re-numbering of all sections (editorial only). Made changes to Equipment Requirements based on racer input. Delete Pit Lane Start section.
02/16/2018	1.5	All	Updated dates through-out document to 2018, Schedule changes, and added new AMA Safety requirements for all participants.
01/08/2019	1.6	Numerous	Changed first Saturday to read first Saturday following the first Thursday of the month. Changed to a primary color versus number for easier identification, made other clerical changes such as date and grammar. Added use of radios at pylon judges.
01/22/2020	1.7	Document/ Aircraft ID	Updated year to reflect 2020, removed grandfather clause in paragraph 3 of Teams and Aircraft Identification Section.
02/10/2021	1.8	All	Updated year to reflect 2021
02/14/2022	1.9	All	Updated year to reflect 2022
02/17/2023	1.10	All	Updated year to reflect 2023
02/14/2024	1.11	All	Updated year to reflect 2024
02/08/2025	1.12	Numerous	Updated year to reflect 2025, added eFlite 1.1m aircraft and "Parkzone" aircraft changes required, added use of streamers for aircraft ID, Changed how Racing Coordinator is chosen.
02/07/2026	1.13	Numerous	Updated year to reflect 2026, Only Change