

Alliance Airways

For internal use only.



Pylon Racing League
Official Rules



Alliance Airways



AIR RACING PARTICIPATION

Participation in Alliance Airways Air Racing is open to AXX (Pilots and Aircraft) meeting the requirements of these Racing Rules and those of the three classes.

OFFICIALS

1. AXX Management Team
2. AXX Air Racing Director / Chief Judge

AIRCRAFT ELIGIBILITY

Only three AXX Racing Aircraft are eligible to race on the AXX KRTS race course. No third party racing aircraft are allowed to be flown in this Air Racing competition. No AXX Racing pilot may fly an AXX Racing aircraft in any other race class/course other than the specified class/course shown below:

1. Cassutt Racer - Formula 1 Class/Course
2. P-51 XR Mustang "Precious Metal" - Unlimited Warbird Class/Course
3. EZ - Rocket - Unlimited Rocket Class/Course

PILOT ELIGIBILITY

1. Any AXX Pilot who holds a PPL rank or above can join Pylon Racing Team and compete.
2. An AXX Pilot must complete an air racing application and if you hold a rank of PPL or above, you will be automatically be added to the Pylon Racing League roster, it's that simple.

BRIEFINGS

All Race Pilots must attend a general Pilot's Briefing before practicing, qualifying, or racing on the KRTS race course. This briefing will be conducted by the Air Racing Director / Chief Judge.

PRACTICE

An AXX Race Pilot may practice flying on the KRTS race course either offline or online. If the Race Pilot wants to fly online using VATSIM, position your racing aircraft on the KRTS ramp. If your airspace is being controlled by Oakland Center, set your transponder to squawk 1200 and contact Center. Place a request for a >250 IAS airspeed waiver for flying on the KRTS race course. If Oakland Center grants your request, please reply with a polite Thank You!

Alliance Airways



RACE COURSE

Please take a look at the overhead view of the KRTS airport which includes the optimum flight paths for the 3 race courses shown (Formula 1, Sport Class & Unlimited).

The Unlimited Class course is 8.0851 miles based upon a speed of 500 MPH and 4.0 Gs.

The Sport Class course is 8.0782 miles based upon a speed of 425 MPH and 3.0 Gs.

The Formula 1 Class course is 3.1875 miles based upon a speed of 250 MPH and 3.0 Gs.

Formula One Race Course

Course Description

1. The course begins and ends at the black/white checkered line near the midfield of runway 8 of the Reno Stead airport, KRTS.
2. The course consists of 6 pylons (pylons 1-6). Pylons 1-5 are colored green with a red laser beam extending 250 feet above the ground.
3. Pylon number 6 is shared with the unlimited and sport class course. This pylon is white with a red laser extending to 250 feet above the ground with a green laser extending to 600 feet above the ground.
4. A single lap around the Formula One race course begins at the black/white checkered line, goes around pylons 1-6, and back to the black/white checkered line.
5. The Aircraft must fly on the right side of the pylon at all times and cannot fly any higher than the red laser beam (250 feet AGL). Points will be deducted for either flying on the left side of the pylon and/or flying above the red laser beam.
6. A Time penalty will be deducted for flying around the left side of a F1 Pylon OR if any part of the CR aircraft comes into contact with the F1 Pylon or the Ground OR flying above the Red laser beam.

Race Description

1. Cassutt Racer (CR) will take off on Rwy 08 and bank left to cross the white/blue Start Line.
2. The CR pilot will make one lap around the Unlimited course to build airspeed and then cross the white/black Start Line.
3. At this point, the pilot will complete 8 laps on the Formula 1 course.
4. Upon completion, the pilot will climb to 6,500' to cool down and announce his/her intentions to land on Rwy 08.
5. Taxi to the ramp, save the replay of the flight and submit this replay file to the AXX Air Racing Chief Judge.



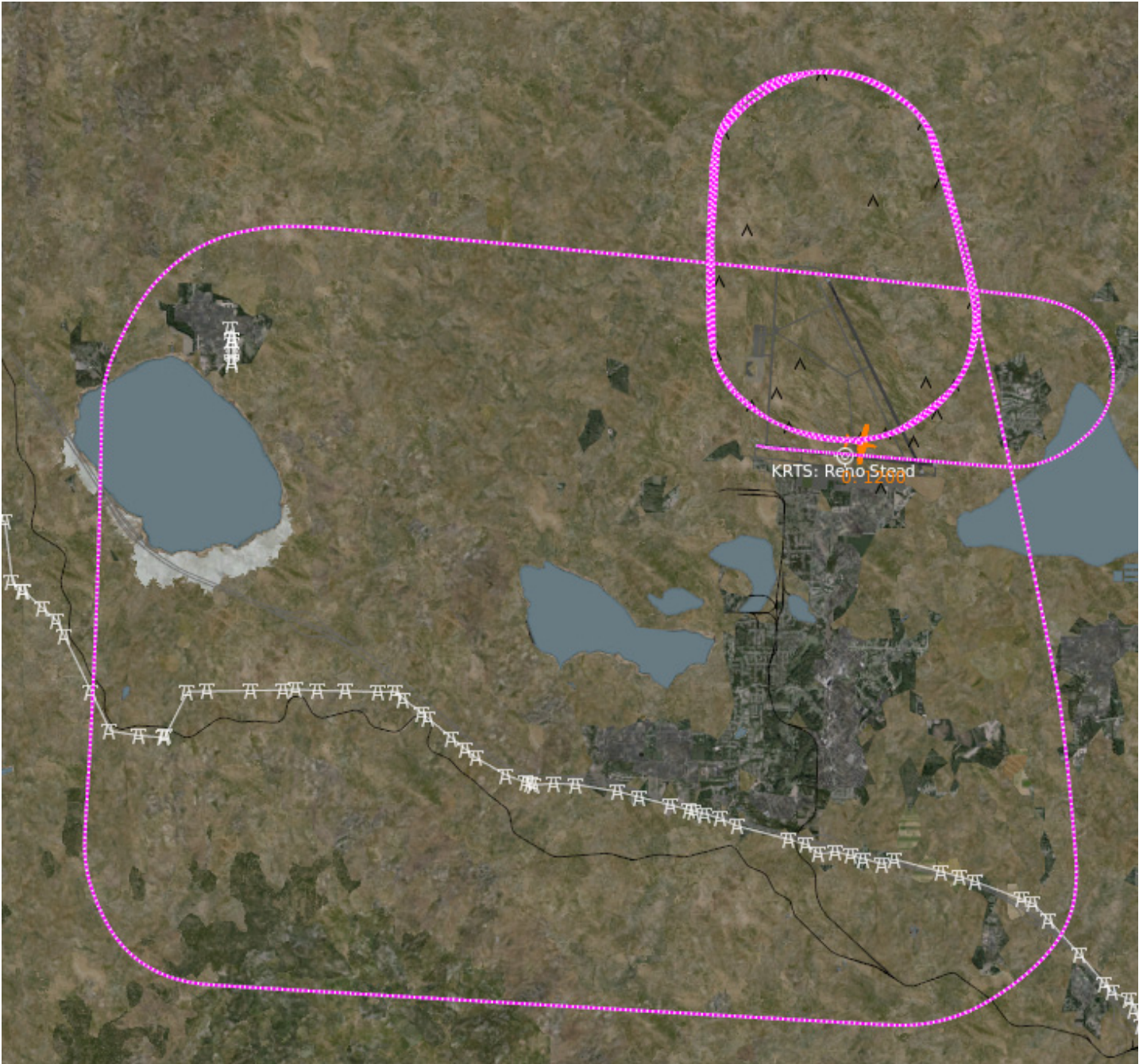
Unlimited Course

Course Description

1. The course begins at the blue/white checkered line near the threshold of runway 32 of the Reno Stead airport, KRTS.
2. The course consists of 9 pylons (pylons 1-9). Pylons 1-9 are colored white with a green laser beam extending 600 feet above the ground.
3. Pylon number 9 is shared with the Formula One course. This pylon is white with a red laser extending to 250 feet above the ground with a green laser extending to 600 feet above the ground.
4. A single lap around the Unlimited race course (with the exception of lap number 1) begins at the black/white checkered line, goes around pylons 1-9, and back to the black/white checkered line.
5. The first lap on the Unlimited race course begins at the blue/white checkered start line, and continues around pylons 2-9 and ends at the black/white checkered line.
6. The Aircraft must fly on the right side of the pylon at all times and cannot fly any higher than the green laser beam (600 feet AGL). Points will be deducted for either flying on the left side of the pylon and/or flying above the green laser beam.
7. A Time penalty will be deducted for flying around the left side of the Pylon OR if any part of the aircraft comes into contact with the Unlimited Pylon or the Ground OR fly above the Green laser beam.

Race Description

1. EZ-Rocket or the P-51 Mustang, will take off on Rwy 08 and fly a left pattern following the pace plane..
2. Extend the downwind leg until you reach the lake on the left of your wing and turn left 90 deg.
3. When your left wing reaches Peavine Peak Mountain, make another 90 deg turn to the left to the top of Peavine Peak Mountain.
4. The Pace plane will then head North back towards the Left end of the white/blue Start Line and descend to 6000' with race aircraft lined up off the Pace plane's right wing.
5. Pace plane will announce " Pilots, You have a Race! ", pull up and the Racers will cross the white/blue Start Line and proceed to fly 6 laps on the Unlimited course.





RACE COURSE PENALTIES

A Pilot who has cut a Pylon may continue to race but will be penalized two (2) seconds times the number of Laps in the race for each Pylon cut. The penalty time will be added to the actual finish time to arrive at a revised race time, which will be used to compute the final race heat speed.

Protests submitted to the Chief Judge will not be allowed on penalties for Pylon cuts.

RACE JUDGING AND AWARDS

The Chief Judge will review every submitted replay to determine race heat time, penalty time and a Race Pilot's official race heat time. The Chief Judge will post the racer's name, class, race heat, actual finish time, penalties, official race heat time, and race points earned.

Race pilots in each class can earn points that will count towards the Race season's [Formula 1, Unlimited Warbird and Unlimited Rocket] Championship awards.

The Race pilot who earns the greatest number of points in all three classes combined will be awarded the Alliance Airways Pylon Racing League title of "2014 Grand Champion"

EMERGENCY PROCEDURES

If a Race Pilot declares a "MAYDAY" or when it is obvious that a Racing aircraft is having an emergency, Race Control will announce that an emergency is in progress. Any aircraft declaring "MAYDAY" or obviously leaving the race course for an emergency condition will not be allowed to re-enter that race and will have terminated the race at that point. If a 'MAYDAY' has been declared, all other aircraft will continue to race.

RACE CANCELLATION / POSTPONEMENT

The Alliance Airways Owner and the Racing Director / Chief Judge has the authority to cancel or postpone a scheduled air race for whatever reason that they deem is necessary. (Problems associated with the online network VATSIM, the Teamspeak server is not working, a Power outage, problems with the Internet Service Provider, etc.)

SAFETY

Racing aircraft must go through a complete technical inspection before it can be deemed race airworthy. Race pilot's must wear fire retardant flight clothing and gloves which are mandatory for all race classes. Safety harness, Helmets and Oxygen masks shall be used in accordance with individual class racing rules.



Reno Stead Airport – KRTS Optimum Race Paths

