

Construction of your Premier RC 5' X 3' ARCH Multirotor Race Gate.

Before you begin empty the contents of the bag and ensure you have everything you need.

For this race gate you should have:

2 x 9.5 mm 20" fiberglass poles

2 x ABS ground stakes

3 x 8 mm 45" fiberglass poles

1 x arch style skin

Decide the location of your gate, making sure it is in line with the flight path of your course.

Push one of the ABS ground stakes into the ground until the top of the stake is approximately 1 inch from the ground. If the area is very hard and compact you may need a rubber mallet, or hammer against a piece of wood to drive the stake into the ground. Never use metal hammers to drive the ground stakes into the ground. This may cause damage to the ABS plastic.

Mark off about 7 feet from the first ground stake and drive the second stake in place.

Set up Tip: You can pre measure a 7' cord with a loop at each end. Place the loops around the stakes for accurate measurements and easy set up

Now it is time to assemble your gate.

Place the 9.5 mm fiberglass poles in the holes of the two ground stakes so that the metal ferrules are pointing up.

Place a 8 mm fiberglass pole into the metal ferrule on the first 9.5 mm pole so that the metal ferrule faces you.

Continue connecting the 8 mm fiberglass poles together end to end, arching them towards the second ground stake. The last 9.5 mm fiberglass pole will not have a metal ferrule on the end.

While holding the connected fiberglass frame in one hand take the gate skin and begin to thread the fiberglass frame through the elastic loops along the top edge of the skin. Thread the entire skin onto the fiberglass frame, while keeping the frame arched upward so that the sections of the frame stay connected.

When you are finished threading the gate skin onto the fiberglass frame, take the end of the last 8 mm fiberglass pole and place it into the metal ferrule of the second 9.5 mm pole that has already been placed into the second ground stake.

Adjust the gate skin so that it distributed equally from side to side along the fiberglass frame.

Take the tension lines on each end of the skin and slide them under the small hook of the ground stake. Tie off these lines to provide equal tension to the gate sail.

Set up Tip: You may find it easier to take the line off each side of the gate and tie loops on each end so that the total length is approximately 4". Re-connect one end back to the tie down loop on the gate skin and pull the end down until you can slide it under the hook on the underside of the ground stake. Using this method allows you to quickly set up and take down your race gate. For extra support in windy conditions, use tie down lines to add extra support. (see diagram)

Special Safety Note:

Remember it is your responsibility to always fly safe. By following the AMA Safety Code, within the United states, you are protected by the Special Rule for Model Aircraft under the 2012 FAA Modernization and Reform Act.

Flying FPV, As long as you continue to follow AMA's safety guidelines for these activities, you can continue to fly, within the United states. Guidelines listed on the FAA UAS website do not negate the modeling activities and related safety procedures established in AMA's community-based safety program. For additional and up to date information on Drone regulations and safety rules, within the United states, you can visit the AMA's website. <http://www.modelaircraft.org>



