

Size: Universal

StratoFins[®]

Screw-on Water Rocket Fins



StratoFins[®] Instructions & Information

Take Your Rocketry To The **Next** Level

StratoFins® Kit Includes:

Attachment ring (1)

Fins (3)

Instruction booklet (1)

StratoFins® are compatible with 95% of all available launchers in the marketplace either homemade or commercial including those employing a rubber stopper, an expanding tube, nozzle, O-ring, or cable ties because it replicates the threaded portion of the bottle beyond the fins.



Please read through the StratoFins® instructions carefully to optimize flight performance with your specific style launcher. Launch rocket with extreme care and only under adult supervision.



Assemble StratoFins®:

Assemble StratoFins®* by sliding each fin down a separate slot on the attachment ring beginning from the top. With all fins in place screw the attachment ring onto a soda bottle until snug. Works ideally with a 2 liter soda bottle, but smaller sizes can be used. This water rocket can be launched with or without a parachute attached because this configuration does not nose dive, but instead tumbles gently to the ground.

* StratoFins® requires no tools or glue for assembly.



Construct Nose Cone:

Create a nose cone from the top of a 2 liter bottle by starting a cut with a razor blade or box cutter about 4" down from the cap and just above the label of a plastic (PET**) soda bottle. Finish cutting around the bottle with scissors in a straight line. Cut around again if necessary to smooth and straighten the bottom edge of your new nose cone.

Launching a water rocket with a nose cone improves performance significantly: A nose cone makes a rocket aerodynamic for straighter flights. StratoFins® will work on most launchers with air pressures from 20 to 120 PSI, but best results occur between 40 to 80 PSI with a nose cone resting atop the rocket.

Place Nose Cone:

Right before launch place the nose cone on top of the water rocket. Do **NOT** secure it in any manner. Notice the gap between it and the bottle. During lift off the air pressure holds the cone in place. When the rocket reaches apogee and begins to turn, the cone falls off thus preventing the rocket from nose diving into the ground and causing potential damage to the rocket and public or private property.



** Polyethylene terephthalate (aka PET) is a thermoplastic polymer resin of the polyester family that is used in soda pop bottles. Serious bodily injury could result from using any other type of bottle.

Launcher Info:

Additional information on water rocket launchers, helpful troubleshooting tips, and related videos are all available at www.StratoFins.com.

* An optional flagging tap streamer about 2 ft. long can be attached inside the nose cone with the cap screwed over one end as shown on previous page to help locate the cone after launching.





Troubleshooting AquaPod:

- If air pressure and water leak between the StratoFins® ring and the AquaPod nozzle replace the O-ring with the spare or purchase a new #67 O-ring (13/16" OD x 11/16" ID x 1/16") from a hardware store.
- If the AquaPod release bar digs into the StratoFins® lip preventing easy liftoff, then round the center portion of that sharp edge on the AquaPod release bar by sanding it.

StratoFins[®]

Screw-on Water Rocket Fins

- Compatible with 95% of all launchers homemade or commercial.
- Works with: cable ties, rubber stopper, nozzle, or O-ring version.
- Increases your water rocket apogee altitude by 2 to 3 times.
- Provides gentle recovery when rocket is balanced.
- No tools or glue required for assembly.
- Simply screw-on to a 2 liter soda bottle or smaller.
- Durable plastic StratoFins[®] weigh a mear 1.1 oz (31 g).
- StratoFins[®] kit includes 1 attachment ring, 3 fins, and instructions.

Disclaimer: Relationshipware LLC and its members are **NOT RESPONSIBLE** for any injury or loss of property to any person suffered while operating a water rocket launcher with StratoFins[®] attached.

For more information and video demonstrations please visit:
www.StratoFins.com info@stratofins.com

Relationshipware LLC
StratoFins[®]



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