

# IMPORTANT LEGAL AGREEMENT

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The following terms form a legal agreement between you ("Consumer") and AntiGravity Research Corporation ("AntiGravity"). By using this product and/or its documentation (hereinafter referred to as "product") as provided or in any subsequent form, you acknowledge that you have read, understood, and agree, to be bound by these terms and to comply with all applicable laws and regulations. If you do not agree to these terms, do not use this product and return it, for a full refund, to the original place of purchase.

## PRODUCT LIABILITY LIMITATION

AntiGravity shall not be liable for any consequential or incidental damages, injury, loss or expenses arising from the use or inability to use this product for any purposes whatsoever, or for any willful or accidental misuse of the product. By using the product, the consumer acknowledges that the product is intended for specific educational and recreational purposes and that adult supervision, caution and reasonable care should be exercised in its use. Unacceptable uses include but are not limited to, launching the product into the flight path of aircraft, launching the product toward people or vehicles, or using the product to create an explosive device or using the product in any way which may cause injury to self or others. The consumer agrees to release AntiGravity, its owners, employees, heirs, assigns, officers, agents and associates from any and all liability, claims, demands or actions or causes of actions arising from or blame whatever arising out of any damage, injury, loss or death resulting from any cause whatever, whether the result of misuse, the fault of the user, a defect in the product or from any other cause whatever, regardless of intention. No action or representation written or verbal on the part of AntiGravity or any other can amend, make void, or alter this product liability limitation in any way at all. The consumer agrees to all of the terms of this limitation when using the product. If you do not agree to these terms, then do NOT use the product and return it, for a full refund, to the original place of purchase.

## DISCLAIMERS

AntiGravity explicitly states that this product is not meant for use by unsupervised children and is not meant for use with any air pump other than a standard low pressure hand-powered bicycle air pump, nor is it meant for use with any bottle other than a plastic bottle that previously contained fizzy pop. Using any air pump capable of applying more than 80 pounds per square inch of pressure or using anything other than a pop bottle is strongly DISCOURAGED.

## JURISDICTION

AntiGravity is located in and operates from Chilliwack in the province of British Columbia, Canada and no other location. The laws of the province of British Columbia shall govern these terms and conditions and any dispute related thereto without regard to choice of law rules. Consumer hereby consents and agrees to exclusive jurisdiction and venue of courts in New Westminster, British Columbia, Canada. Use of this product is unauthorized in any jurisdiction that does not give effect to all of these terms including, without limitation, this paragraph.

## SEVERABILITY

If any part of this agreement is deemed to be invalid or unenforceable for any reason, then such invalid or unenforceable provision shall be deemed superceded by a valid and enforceable provision that most closely matches the intent of the original provision and the remainder of the agreement shall remain in effect.

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www.antigravityresearch.com email: sales@antigravityresearch.com toll-free: 1-866-546-8633  
phone 604-824-9021 fax 604-648-8192



Take a look at what you get with Rocket Car

Precision-cut high-definition nozzle gives just the right balance between power and sustain.



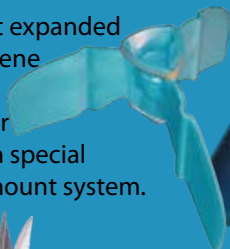
Reinforced front-end cradle with low-friction skids.

Closed cell expanded polyethelene front safety bumper.



Plenty of spare elastic bands to help you keep everthing together.

Resilient expanded polystyrene triple stabilizer fins with special shock-mount system.



All the instructions you could ever want to look at, and less.



AntiGravity's expanding-bulb launcher keeps you 25 feet away from the pressurized bottle.



If you get tired of being earthbound aim it straight up and head for the stars.

Hey, this rocket car seems to

be jumping right out of the picture. Get back in there!

Will I need to provide anything? Just a 2-liter pop bottle and a bicycle pump.



Look no further! The AntiGravity Rocket Car has every feature you've dreamed of. Unlike most other rockets, this one stays on the ground where you can easily measure distance, speed, acceleration, thrust, mass and friction. Don't waste your time searching for wheels: they've been replaced with attention-getting low-mass, low-friction polymer skids. It's a super swift, sleek 70-gram package

all held together with elastic bands and topped off with a pineapple slice in case of direct impact with brick walls. When you get tired of being earthbound, aim it straight up. And power? Just try and name one other car that does 0 to 60 in less than 1 second. Rocket Car. From AntiGravity Research Corporation.

# Looking for a New Car?





# Rocket Car: Putting it all together

On each of the panels below, starting with the skids, begin at the left and work to the right.

Relax, and take your time, and before you know it, you'll be a real rocket scientist!

Assembly time: 5 minutes.

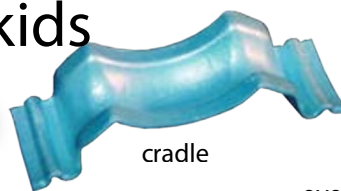


This is your supply of elastic bands. There are 3 different types: short, long, and wide. Keep the extras as spares.



skids

## The skids



cradle



Use the short elastics to attach the skids to the cradle.

For use on snow or water, you don't even need the skids, just use the cradle.

## The Fins

Use your thumb and two fingers to make a triangle with the small elastic band.



With the other hand, hold the fins in an assembled position with the points up, around your middle finger.



Install the small elastic on the bottom of the fins.

Transfer the fins to your other hand. Use your thumb and two fingers to make a triangle with the fat elastic.



Install the fat elastic on the top of the fins. Make sure there are no twists in it.



The completed fins.

Slide long elastic under wide one.



Pull one end of long elastic to other side of bottle.



Pull both halves of long elastic to top.



## The bottle



Guess where the nozzle cap goes! Screw it on firmly.



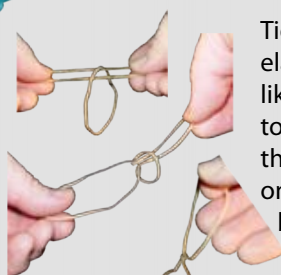
Now we're ready for the final steps!

The soft bumper is held on with one wide elastic around the bottle, and one long elastic over the bumper. This is the toughest part of assembling the rocket car. Once you've done this, you're home-free!

## Final assembly



Push the fins onto the bottle until they click into position.



Tie 2 long elastics together like this, to hold the skids onto the bottle.



Put the cradle as far forward as it can go, using the ridge on the bottle as a guide.

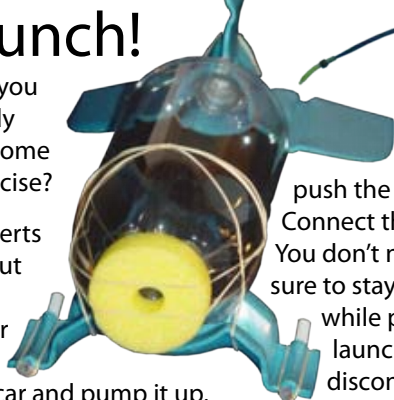


Idea: move cradle farther back for each launch. Rocket Car will almost lift off the ground.

## Launch!

Are you ready for some exercise?

For experts only: put 100 ml of water in the rocket car and pump it up. It really goes!



Unravel the launch hose, then push the yellow end into the rocket's nozzle. Connect the other end to the bicycle pump. You don't need any water for this rocket. Make sure to stay at least 20 feet away from the rocket car while pumping. Pump until the rocket car launches. If you want to launch sooner, disconnect from the bicycle pump. Travels as far as 200 feet per launch.

Reusable rocket car can be launched over and over!



To launch vertically, remove the skid cradle and stand the rocket up. Don't put any water in the rocket or it will tip over and travel sideways.



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# Rocket Car Extra Instructions

1. **Adult supervision required.**
2. **Stay at least 20 feet away from the bottle when pressurizing it. Make sure that everyone present stays at least 20 feet away from the bottle when you are pressurizing it, in case the bottle bursts. It is very loud if it bursts.**
3. **Don't launch the rocket indoors unless everyone present wears earmuff type hearing protection. If the plastic bottle bursts, it is very loud indoors. If the bottle bursts outdoors, it is not nearly as loud.**
4. **Never launch the rocket car without the front foam bumper attached. The bumper protects the rocket and whatever it may hit.**
5. **Never put more than 50 pumps of air into the rocket from your standard bicycle air pump. If the rocket hasn't launched by the time you have pumped 50 pumps, open the lever on the pump's connector and the rocket car should launch. Over-pressurizing the bottle could cause it to burst.** Using a typical bicycle pump with a cylinder diameter of 1.25 inches and a stroke length of 20 inches, the rocket car requires about 25 pumps (40 psi) to work well. 37 pumps (60 psi) runs it at the maximum speed that it can stay on the ground. 50 pumps (80 psi) may move the rocket car fast enough that it lifts off of the ground.
6. If the rocket car lifts off the ground or tips over when you launch it add about 10 grams of weight to the front of the rocket by folding 2 sheets of 8.5 x 11 inch paper in half several times so that it fits behind the foam bumper pad. Experiment by adding weight (more sheets of paper) until the rocket car is stable. This added weight should always be put behind the foam bumper pad for safety. You can also cut the fins shorter to eliminate spin, but this is more difficult to reverse than adding folded paper behind the bumper.
7. If the rocket car lifts off the ground when moving, put the skid cradle farther forward on the bottle. If the rocket car has too much friction on the skids when moving, put the skid cradle back farther on the bottle.
8. If the rocket car turns left or right, or tips over while moving, adjust the fins to align with the body of the rocket.
9. To use as a vertical rocket, remove the skid cradle and stand the rocket vertically on its fins, then launch. Don't put water in the rocket when using it vertically. It will tip over and fly sideways because the nozzle is too small to lift the extra weight of the water.
10. The rocket car doesn't need any water in it to work properly. If you do put water in it, don't put much in, only 100 ml maximum or the rocket will be too heavy to sit properly on its fins before launch. With water in the rocket car, it is much more likely to be damaged on impact than without water. Never use water when launching the rocket car vertically or the rocket will tip over and travel sideways.

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