

**CRUNCH
LABS**
**Laminar Flow
Fountain**



CRUNCHLABS Laminar Flow Fountain Instructions

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CRUNCHLABS Laminar Flow Fountain



Product Usage Instructions

- Assemble the wood pieces, water tray, fountain parts, standoffs, motor, and other components according to the provided manual.
- Ensure proper alignment and connection of all components by twisting and securing them in place.
- Follow the step-by-step instructions to complete the build process, including attaching the acrylic wall, LED light, o-rings, sponge, bolts, and other parts.
- Use the provided pro tips for smoother assembly, such as positioning the tray correctly and starting the plastic tube installation at an angle.
- Protect the electronics by pushing tubes and wires under the tray during assembly.
- Adjust the fountain's angle by turning the bolt clockwise for desired positioning.

Testing and Play

- Once built, test the functionality of the fountain to ensure all parts are working correctly.
- Submerge the motor fully in water to prevent damage and ensure smooth operation.
- Engage in interactive play with the fountain by spinning the ball, capturing it in the water stream, breaking the stream with your finger, and exploring different effects.

Maintenance and Safety

- Properly maintain the fountain by following usage instructions and keeping it clean.
- Avoid improper assembly that may lead to short-circuiting of batteries or other electrical hazards.

FAQ

- **Q:** Where can I find missing or replacement parts?
- **A:** Visit My Account at crunchlabs.com for free shipping of missing or replacement parts.
- **Q:** How can I adjust the fountain's angle?

- **A:** Turn the bolt clockwise to adjust the fountain's angle as needed for optimal display.
- **Q:** What should I do if I encounter difficulties during assembly?
- **A:** Watch the instructional video at crunchlabs.com/flow for guidance on assembly steps and troubleshooting tips.

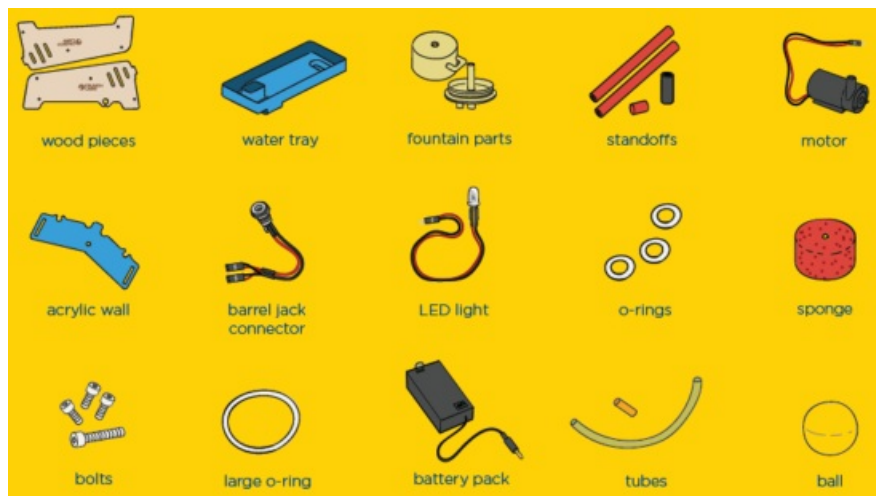
NEW VIDEO UNLOCKED

- BUILD ALONG & LEARN WITH MARK ROBER



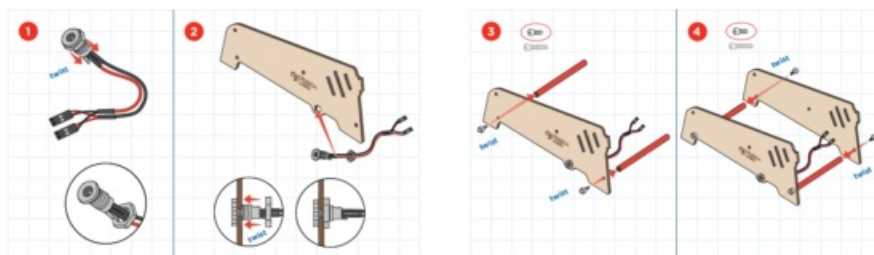
- [CRUNCHLABS.COM/FLOW](https://crunchlabs.com/flow)

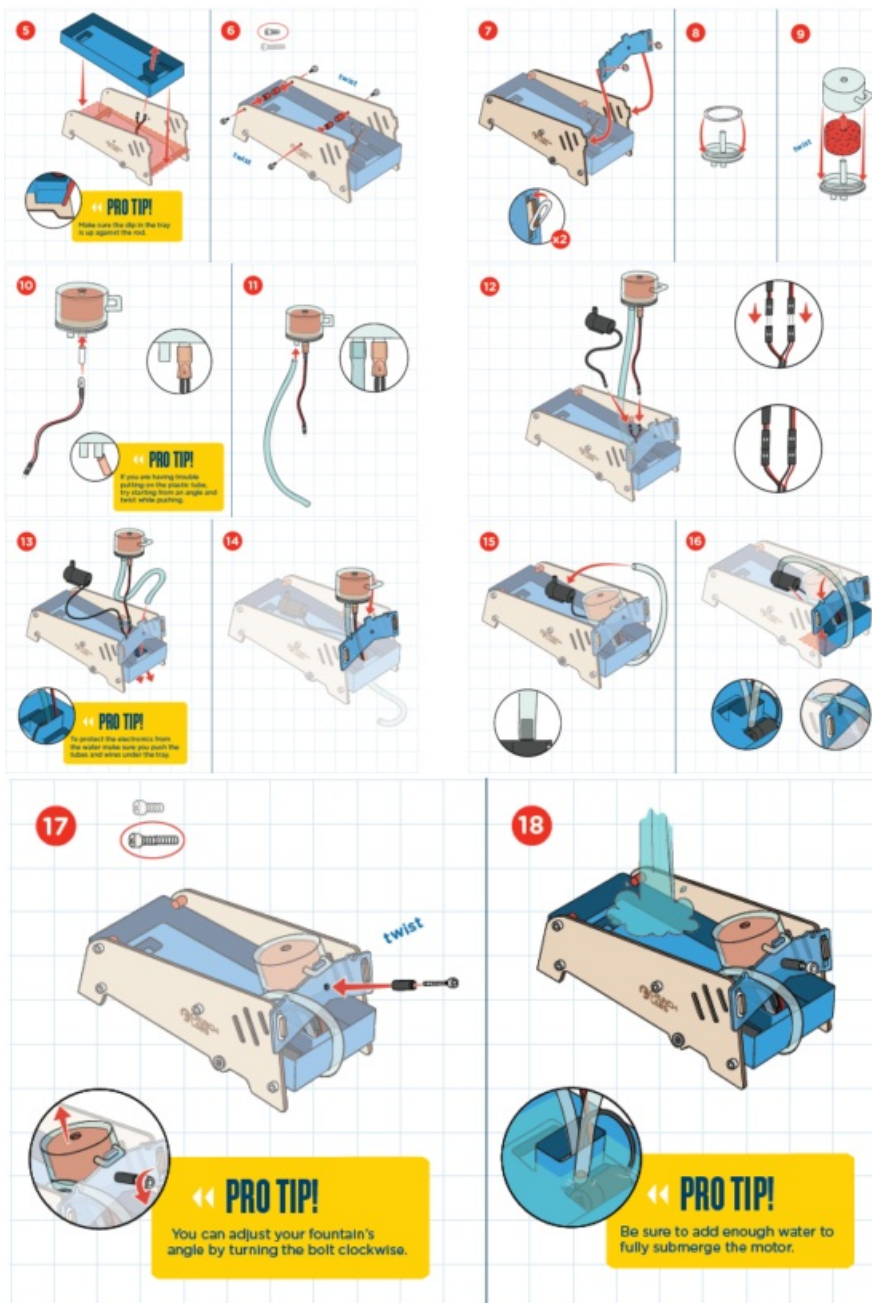
PARTS



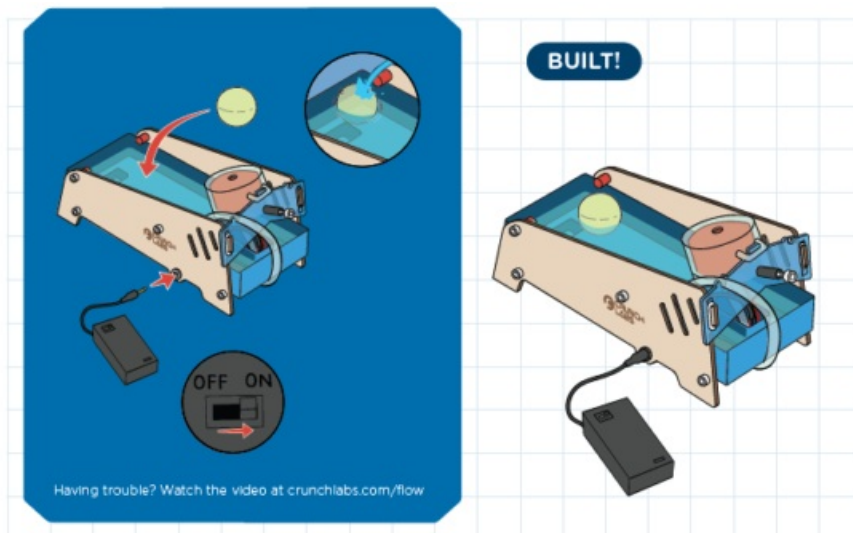
- For missing and replacement parts, visit "My Account" at crunchlabs.com and we'll ship them to you for free.

Installation Instructions



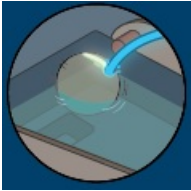


TEST



PLAY

SPIN THE BALL



- Spin the glowing ball in different directions.

WATER BALL



- Capture the ball in the water stream and steer it around.

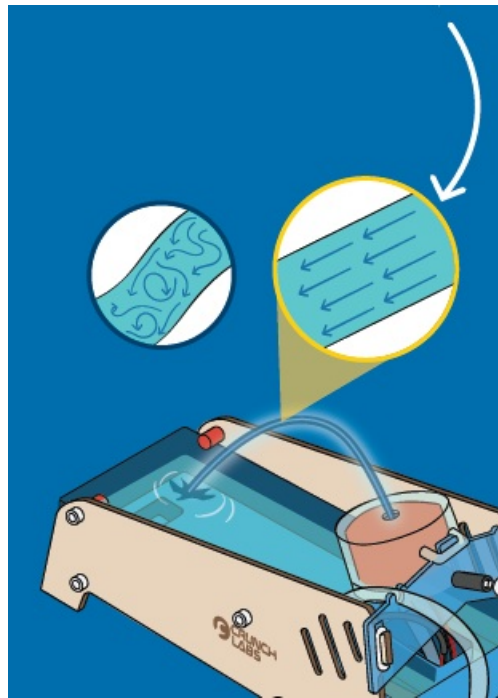
BREAK THE STREAM



- Break the water stream with your finger to create “tracers”.

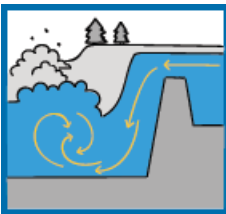
THINK

- Laminar flow occurs when particles of the fluid follow smooth, parallel paths. In contrast, there is a turbulent flow, which is characterized by mixing and swirling. Spin the glowing ball in different directions.
- Laminar flow is when all of the fluid moves together in one direction.
- Sometimes a stream of water will look like it’s frozen in time – this is a tell-tale sign of laminar flow! It means that all the particles of water are following parallel paths, resulting in an effect that looks frozen in time. In addition to being quite mesmerizing, laminar flow is used in many delicate processes such as chemical reactions, or growing crystals for electronic components.



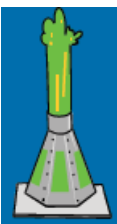
- In engineering, the smooth and uniform properties of laminar flow can be leveraged to create pristine surfaces or precise interactions. On the other hand, laminar flow can also be used artistically for unique effects.

FOUNTAIN OF COLORS



- Certain weir dams and fountains will have sections of water that look smooth and frozen in place. These streams of water can be lit up with various colors to produce cool effects!

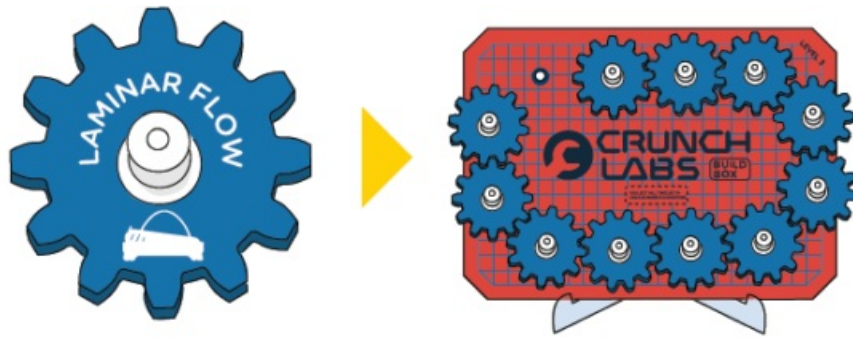
DEVIL's TOOTHPASTE



- In Mark's Video "Devil's Toothpaste," he uses the correct nozzle that is needed for laminar flow.

CONGRATULATIONS. you earned a gear i badge for laminar flow

- Don't forget to add your gear badge to your gear train!



CRUNCH

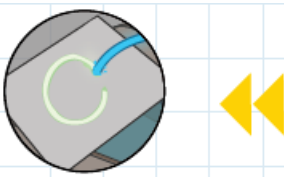
- It's crunch time! Use your engineering superpowers to keep building.

LIGHT UP!



- Change your LED color!

DRAWING WITH WATER



- Try drawing on glow paper!

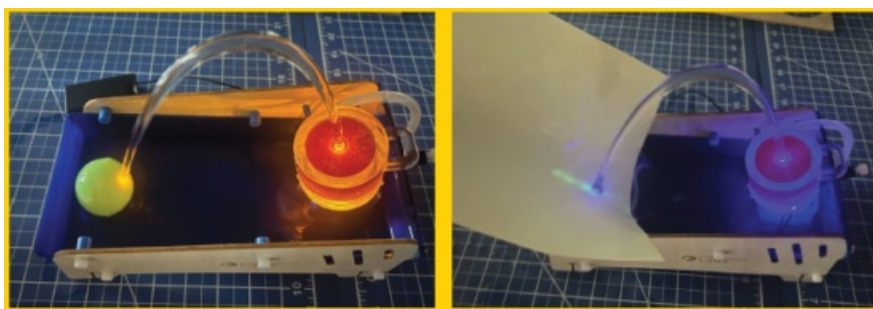
DISPLAY MODE



- Move your fountainhead to a new home!

SHOW OFF YOUR BUILD

- Share your funniest moments & coolest mods!



WARNING: Improper assembly can short-circuit batteries.

BATTERY SAFETY

Remove exhausted batteries. Do not mix old & new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries. Do not recharge non-rechargeable batteries. If using rechargeable batteries, remove them from the toy before charging. Rechargeable batteries should be charged under adult supervision. Do not short-circuit supply terminals. Do not connect this toy to a power supply greater than two AA batteries. How to remove batteries: 1. Remove the screw and lid from a battery pack. 2. Remove batteries. How to insert batteries: 1. Remove the screw and lid from a battery pack. 2. Insert two new batteries into the battery pack with correct polarity (+ and -). 3. Replace the lid and secure the screw on the battery pack.

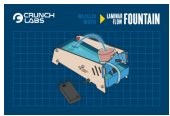
SWEEPSTAKES

Each CrunchLabs build box contains the chance to WIN a trip to visit CrunchLabs with Mark Rober! Sadly, you are not a prize winner this time. Check inside your next build box for another chance to win. The trip includes round-trip transportation and two (2) night's hotel accommodations for a family of four (4). Approximate value: \$4,500. NO PURCHASE NECESSARY. Open to legal U.S. residents, 18 years of age or older. Void where prohibited. For complete Official Rules, including the promotion end date and information on how to obtain a free game ticket, visit www.crunchlabs.com/win.

This toy is intended for use by children over the age of eight years. These instructions contain important information, do not throw them away.

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Documents / Resources



[CRUNCHLABS Laminar Flow Fountain](#) [pdf] Instructions
Laminar Flow Fountain, Flow Fountain, Fountain

References

- [CrunchLabs Build Box Platinum Ticket Sweepstakes](#)
- [User Manual](#)

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