

CRUNCH LABS DSCO Disco Dynamo Generator Instructions

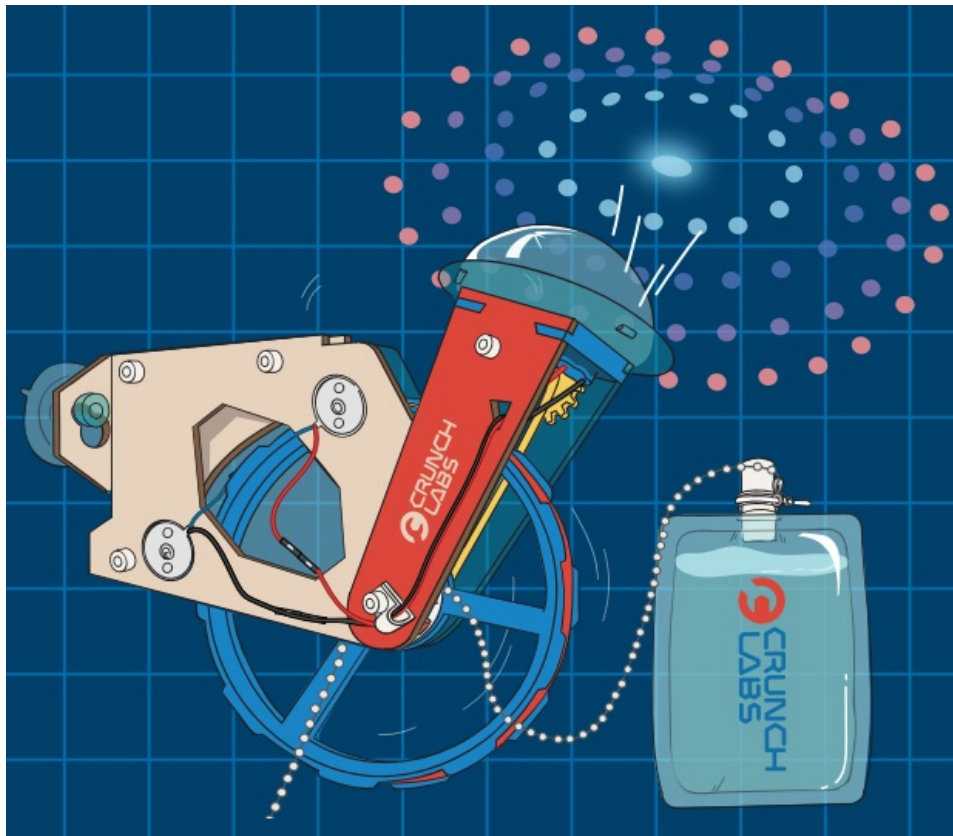
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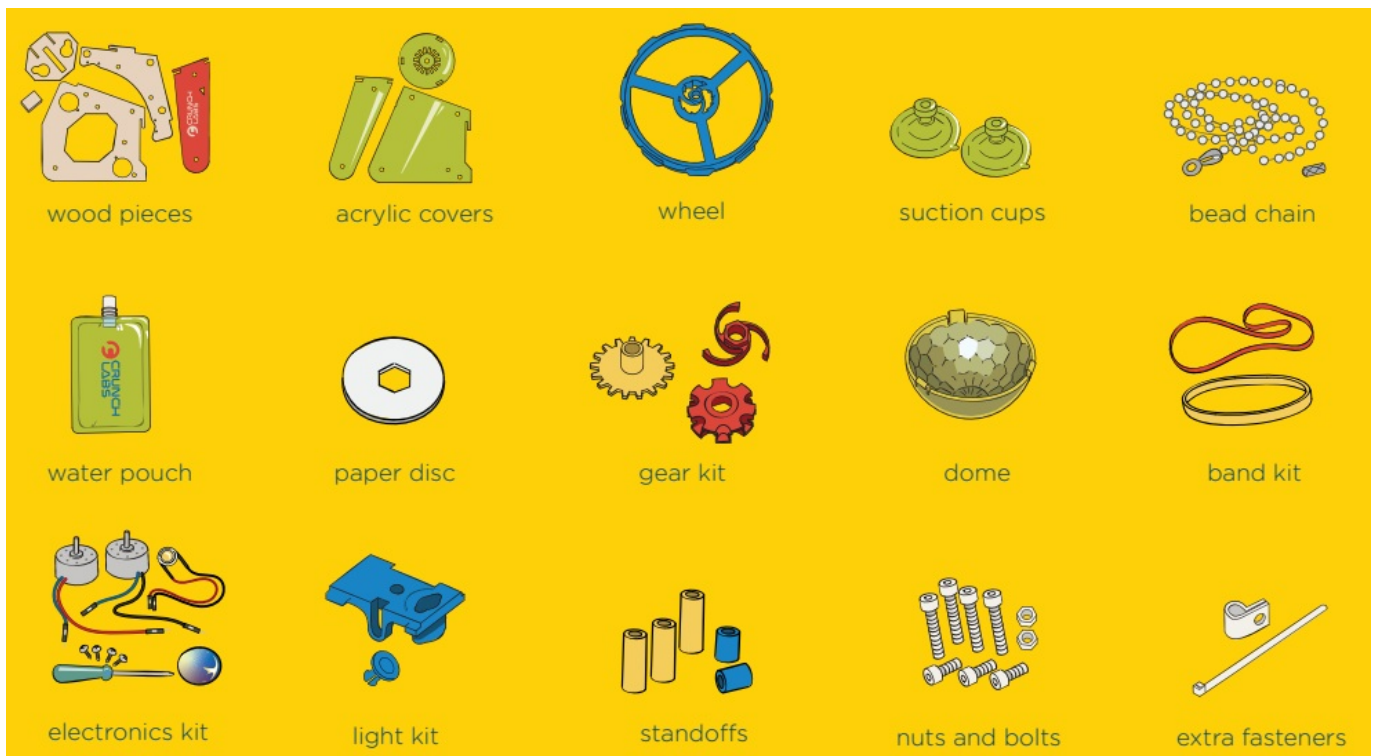
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CRUNCH LABS DSCO Disco Dynamo Generator



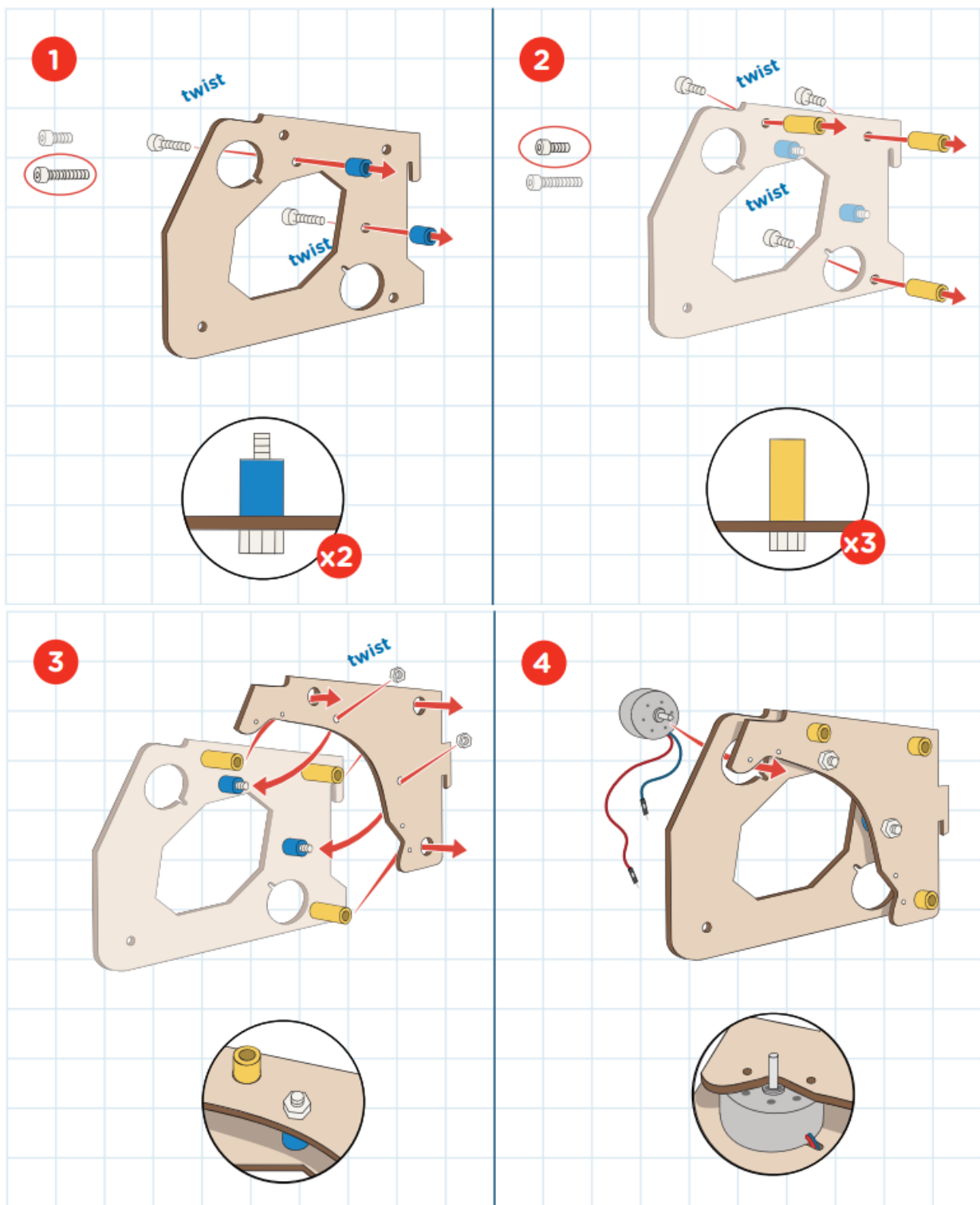
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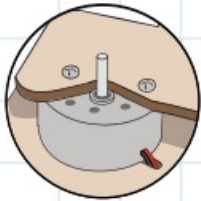
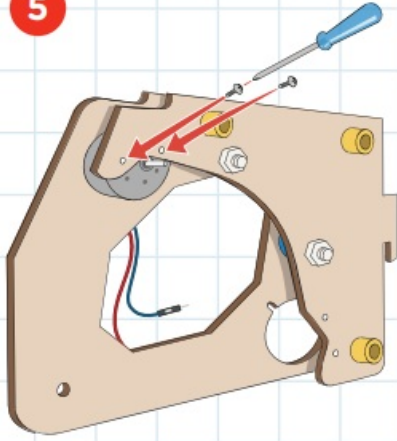
For missing and replacement parts, visit “My Account” at crunchlabs.com and we’ll ship them to you for free.

INSTALLATION INSTRUCTION

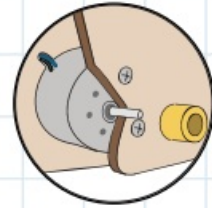
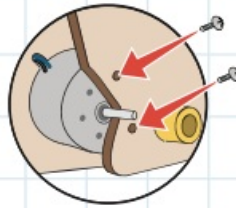
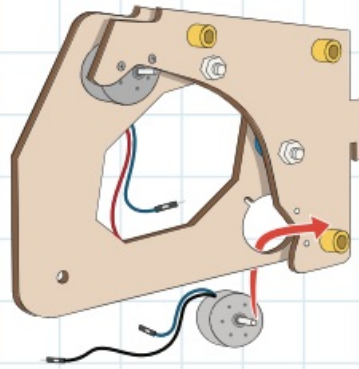
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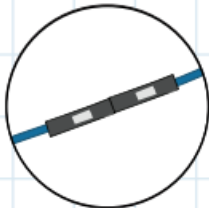
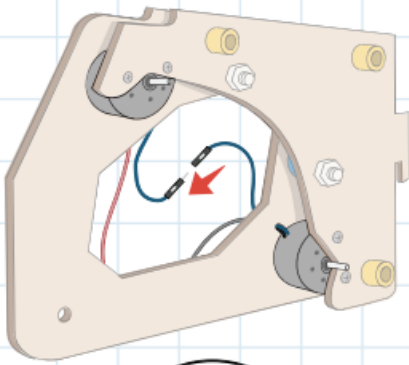
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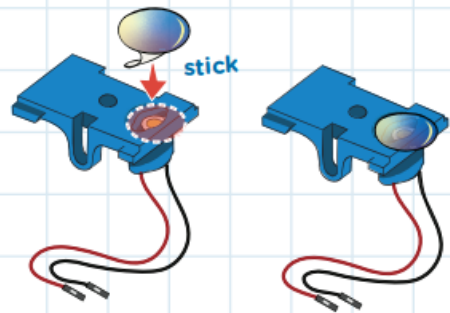
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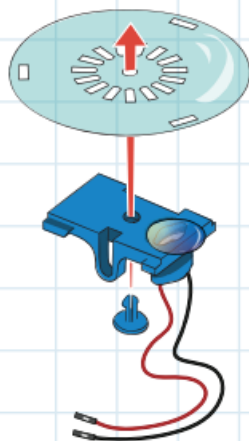
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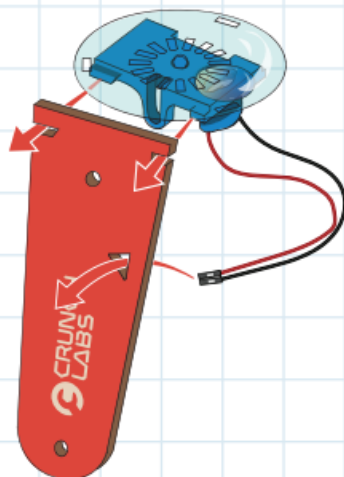
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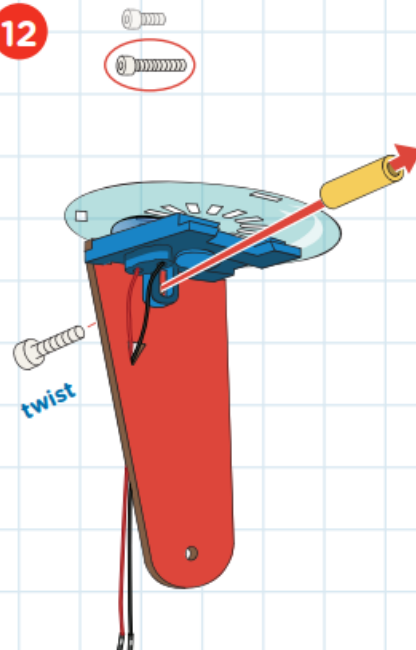
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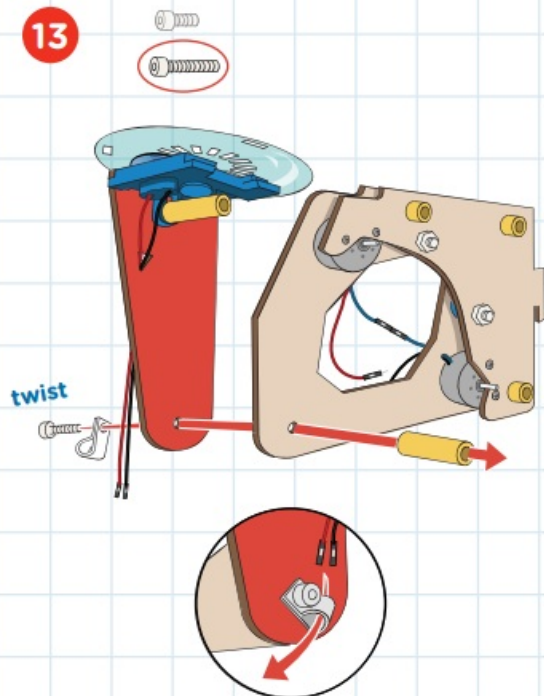
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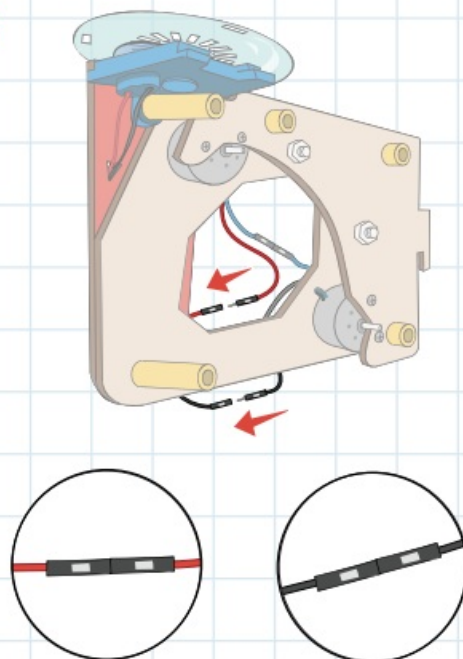
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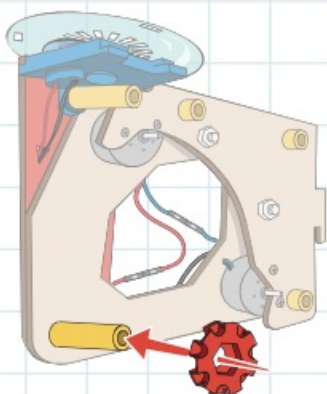
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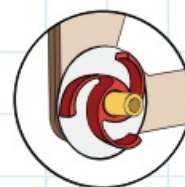
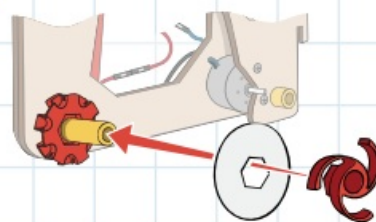
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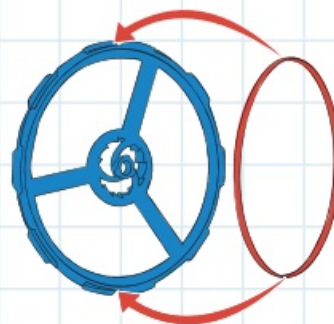
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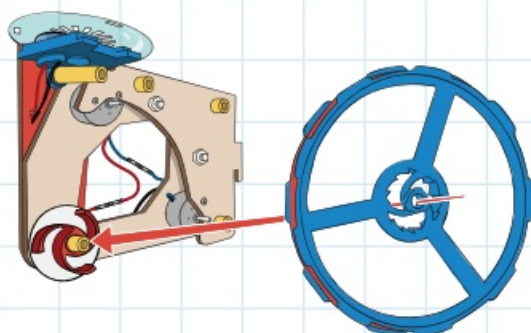
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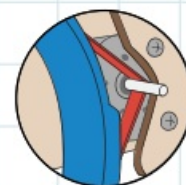
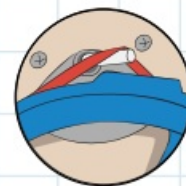
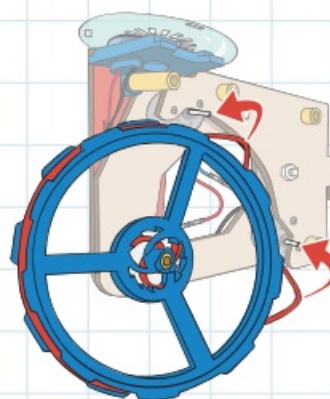
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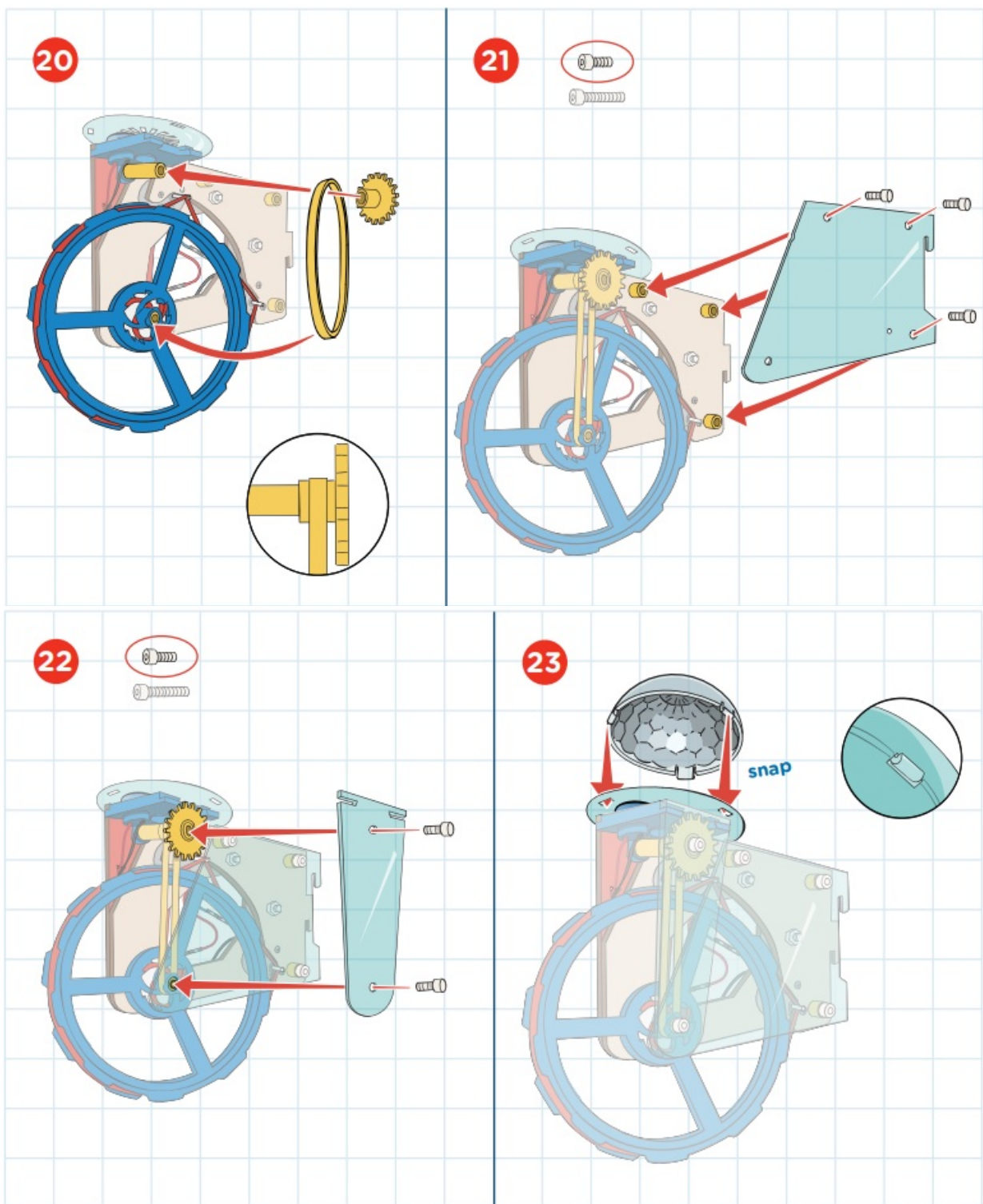


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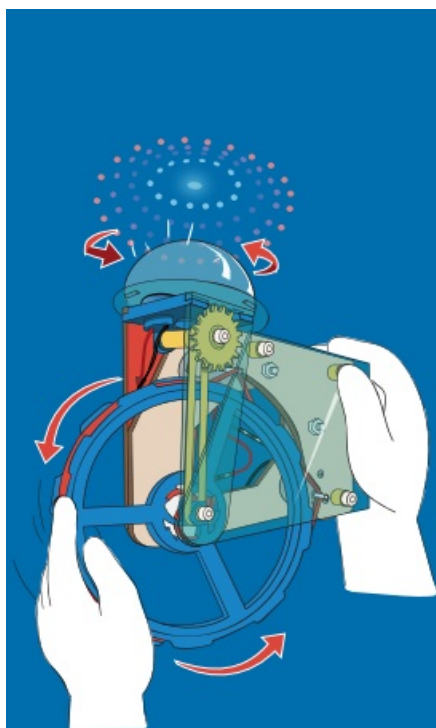


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TEST



PRO TIP! >>

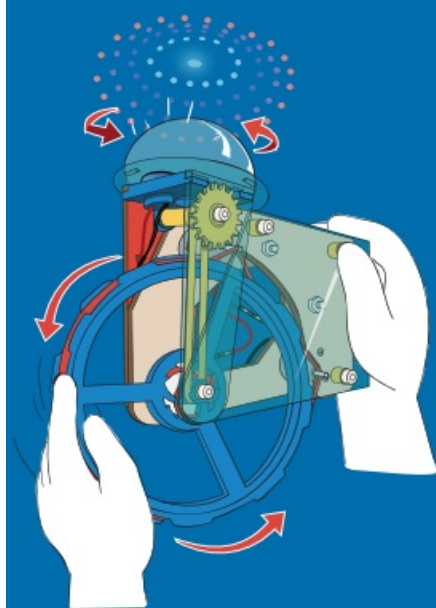
If your dome is not spinning, lift it off the light holder so it can move freely.



<< PRO TIP!

If your light doesn't light up, make sure all your wire colors are correctly connected.

TEST



PRO TIP! >>

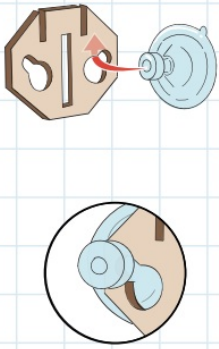
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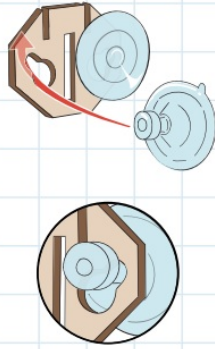
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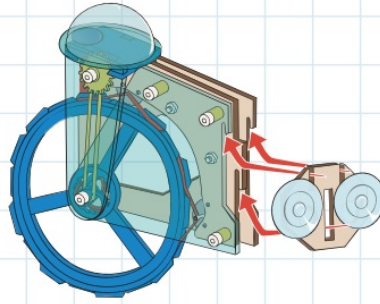
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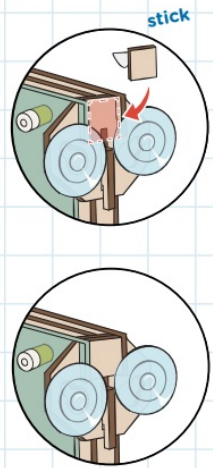
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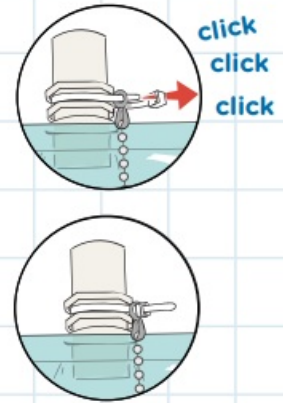
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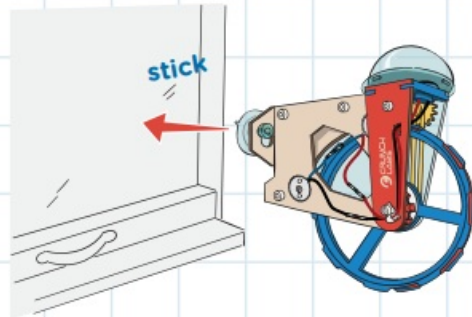
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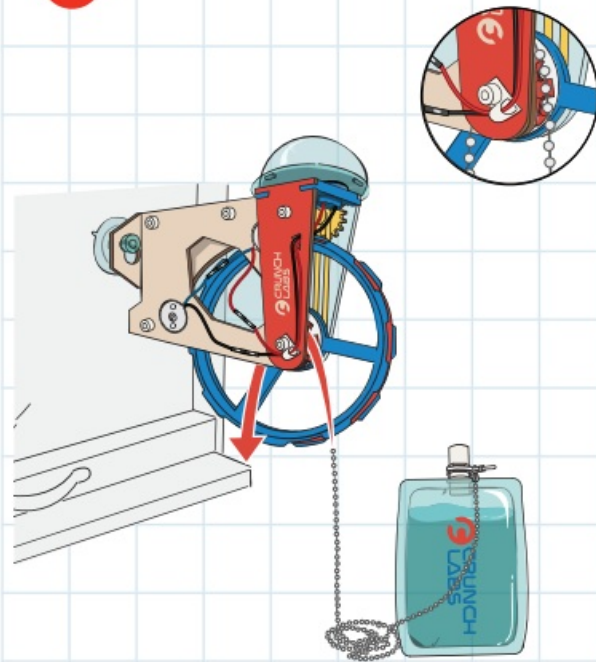
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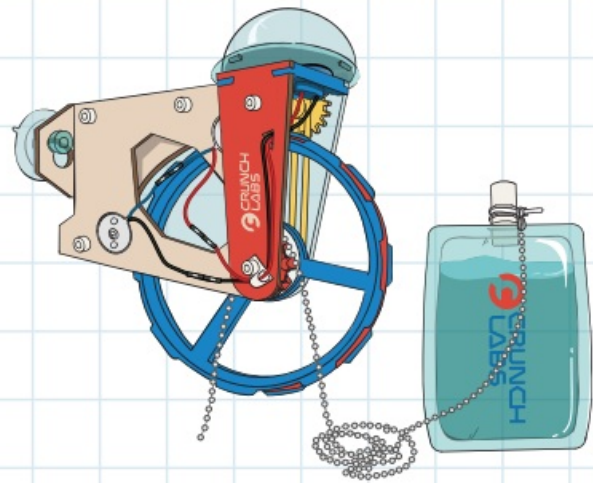
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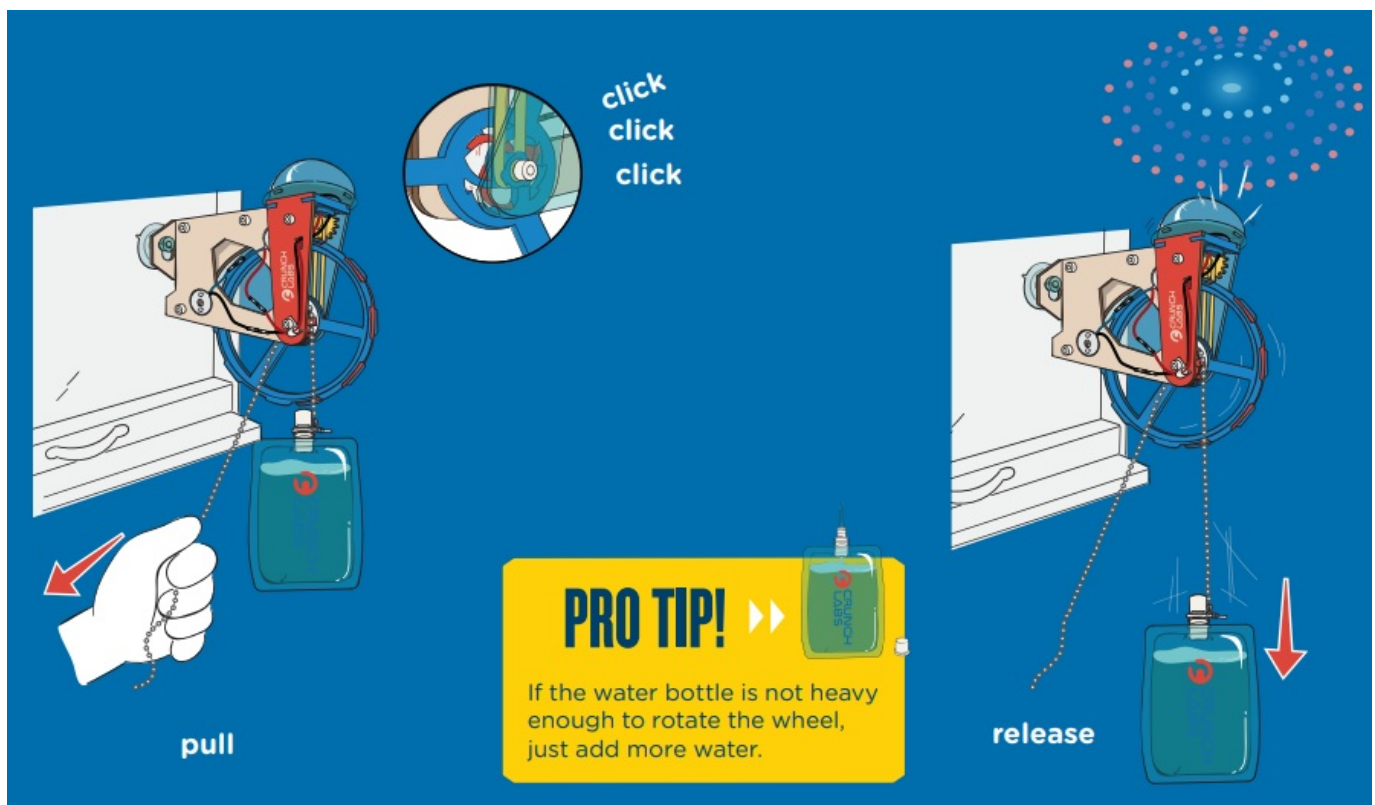
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BUILT!

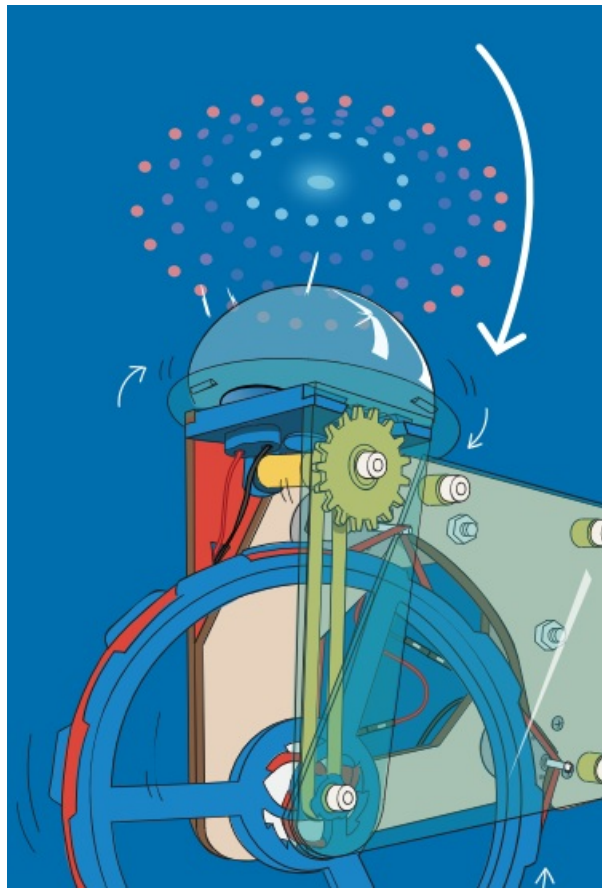


TEST



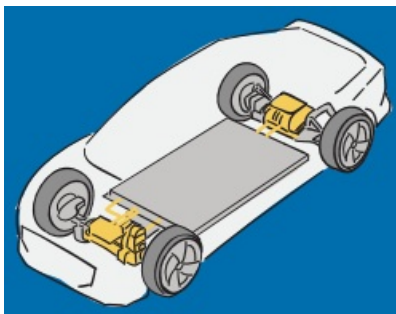
A generator is a device that converts mechanical motion into electrical energy.

Basically, a generator makes electricity when you spin it. Did you know that you can use a motor to create electricity? When you turn the shaft of a motor by hand, it functions as a generator. The rotational energy is transformed into electricity that can turn on a light, charge a battery, or even power another motor! Your Disco Dynamo uses the gravity-powered wheel to spin the shafts of two motors, generating enough electricity to power the LED without any batteries!



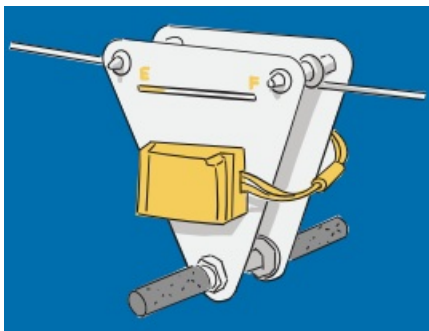
THINK

In addition to generating gravity-powered disco parties, generators are used in many places to create electricity from rotation, such as in the turning of a windmill, the spinning blades of a water turbine, or the braking wheels of an electric car.



ELECTRIC VEHICLES

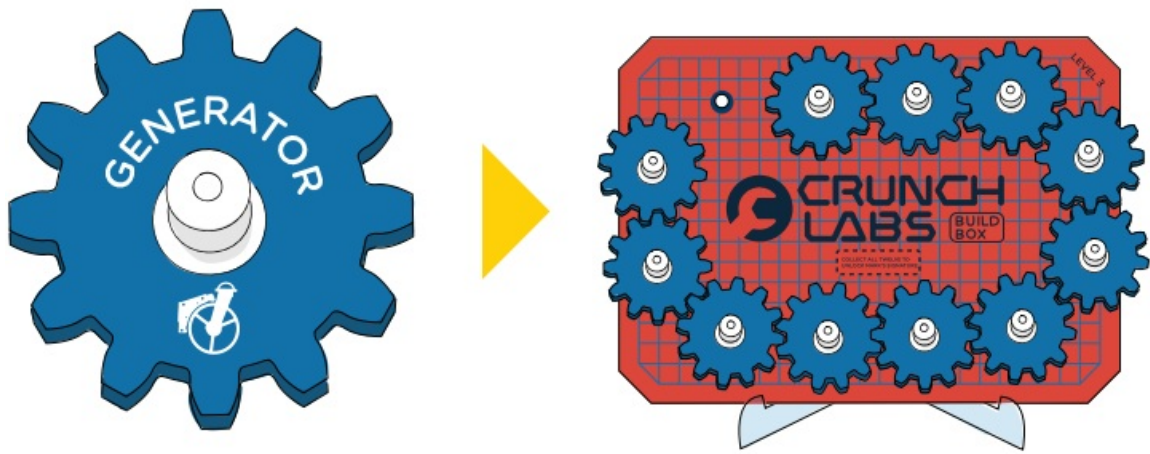
A motor can either use electricity to create rotation, or it can produce electricity by being rotated. In electric cars, the motors that rotate the wheels are used as generators when braking to recapture energy and recharge the battery.



POWER PLAY

In Mark's Video "World's Largest Lemon Battery," he builds a regenerative zipline that converts the rotational motion of the zipline pulleys into electrical energy that he stores in a battery.

CONGRATULATIONS! You earned a gear badge for the generator



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

CRUNCH

SHOW OFF YOUR BUILD It's crunch time! Use your engineering superpowers to keep building.

TUNE YOUR WEIGHT

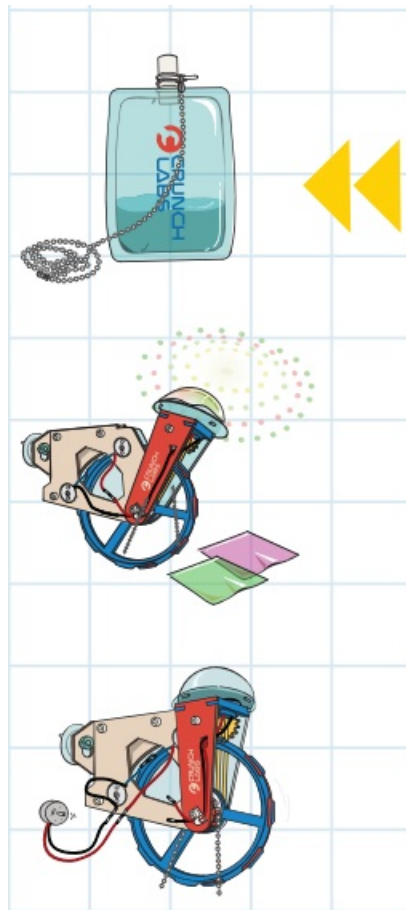
Adjust the amount of water in the water bottle to get either a longer run time or a brighter light. How long can you keep the light on?

CUSTOMIZE YOUR COLORS

Experiment with different materials to change the color of the light. Try removing the disco dome to use the lamp as a reading light.

FULL CIRCLE

Try using your generator to power the motor of another CrunchLabs toy!



SHOW OFF YOUR BUILD

- Share your funniest moments & coolest mods!
 - #crunchlabs @crunchlabs

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. 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 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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Product Specifications

- Wood pieces
- Acrylic covers
- Wheel
- Suction cups
- Bead chain
- Water pouch
- Paper disc
- Gear kit

- Dome
- Band kit
- Electronics kit
- Light kit
- Standoffs
- Nuts and bolts
- Extra fasteners

FAQ

Q: How can I adjust the brightness of the light?

A: Adjust the amount of water in the water bottle to control the brightness of the light.

Q: Can I customize the color of the light?

A: Experiment with different materials to change the color of the light. You can also try removing the disco dome for a different lighting effect.

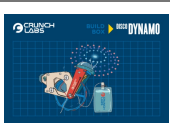
Q: What can I do with the generated electricity?

A: You can power other CrunchLabs toys or devices with the electricity generated by your Disco Dynamo.

Q: How can I share my build with CrunchLabs?

A: Share your build on social media using #crunchlabs @crunchlabs to show off your creation.

Documents / Resources



[CRUNCH LABS DSCO Disco Dynamo Generator](#) [pdf] Instructions
DSCO, DSCO Disco Dynamo Generator, DSCO, Disco Dynamo Generator, Dynamo Generator
, Generator

References

- [CrunchLabs: Where kids & adults learn to Think like Engineers](#)

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

[Manuals+](#), [Privacy Policy](#)

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