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› **STAR WARS Construct Your Own Lightsabers Engineering Kits Instruction Manual**

STAR WARS 225622

STAR WARS Construct Your Own Lightsabers Engineering Kits Instruction Manual

Model: 225622

INTRODUCTION

Welcome to the STAR WARS Construct Your Own Lightsabers Engineering Kits! This kit allows you to build two glowing lightsabers, one inspired by Obi-Wan Kenobi and another by Darth Vader. Designed to introduce fundamental STEM concepts such as fiber optics and LEDs, this kit provides an engaging and educational experience for young Padawans aged 6 and up.



Image 1: The complete Star Wars Lightsaber Engineering Kits package, displaying all components and the two fully assembled, glowing lightsabers (red and blue).

SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small Parts. This product contains small parts and is not suitable for children under 3 years of age. Adult supervision is recommended during assembly and play, especially for younger users.

What's in the Box

Your STAR WARS Lightsaber Engineering Kits package includes the following components:

- 12-Piece Obi-Wan Kenobi Lightsaber Kit
- 12-Piece Darth Vader Lightsaber Kit
- White Glue (0.1 fl oz / 3mL)

- Educational Poster (Double-Sided)
- Easy-to-Follow Project Guide
- Required: 3 LR754 Button Cell Batteries (for each lightsaber, total 6 batteries)



Image 2: All individual components of the lightsaber kits, including hilt parts, blades, and a tube of white glue, displayed before assembly.

SETUP: ASSEMBLY INSTRUCTIONS

Follow the detailed steps in the included Project Guide to assemble your lightsabers. The process involves connecting various hilt components, inserting the LED and fiber optic elements, and securing the blade.

1. **Unpack Components:** Carefully remove all parts from the packaging. Organize the pieces for each lightsaber (Obi-Wan Kenobi and Darth Vader) separately.
2. **Review Project Guide:** Read through the entire Easy-to-Follow Project Guide before beginning assembly to familiarize yourself with the steps and ensure you have all necessary parts.
3. **Hilt Assembly:** Begin by connecting the hilt sections according to the guide. Ensure all connections are secure.
4. **LED and Fiber Optics Installation:** Insert the LED and fiber optic elements into the designated hilt sections. Pay close attention to the orientation as indicated in the guide.

5. **Battery Installation:** Each lightsaber requires 3 LR754 button cell batteries. Carefully insert the batteries into the battery compartment, observing the correct polarity (+/-).
6. **Blade Attachment:** Securely attach the lightsaber blade to the hilt. Some steps may require the application of the provided white glue for permanent fixture. Allow adequate drying time if glue is used.
7. **Final Check:** Once assembled, ensure all parts are firmly connected and the lightsaber feels sturdy.



Image 3: Artwork depicting Darth Vader and Obi-Wan Kenobi, highlighting the two distinct lightsaber designs included in the kit.

OPERATING YOUR LIGHTSABER

After successful assembly and battery installation, your lightsaber is ready for use.

- **Power On/Off:** Locate the power switch on the hilt of your lightsaber. Flip the switch to the 'ON' position to illuminate the blade. Flip it to 'OFF' when not in use to conserve battery life.
- **Light Dynamics:** Observe how the LED light travels through the fiber optic blade, creating the iconic glowing effect.



Image 4: The two assembled lightsabers, glowing brightly, demonstrating their operational state and approximate height of 8.5 inches.

MAINTENANCE

- **Battery Replacement:** When the lightsaber's glow diminishes, it's time to replace the batteries. Carefully open the battery compartment, remove the old LR754 button cell batteries, and insert new ones, ensuring correct polarity.
- **Cleaning:** Wipe the lightsaber hilt and blade with a soft, dry cloth to remove dust and fingerprints. Do not use abrasive cleaners or immerse the lightsaber in water.
- **Storage:** Store the lightsabers in a cool, dry place away from direct sunlight when not in use. If storing for extended periods, it is recommended to remove the batteries to prevent leakage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lightsaber does not light up.	<ul style="list-style-type: none">◦ Batteries are dead or incorrectly installed.◦ Power switch is in the 'OFF' position.◦ Loose connection during assembly.	<ul style="list-style-type: none">◦ Replace batteries with new LR754 button cells, ensuring correct polarity.◦ Flip the power switch to 'ON'.◦ Carefully re-check all connections as per the Project Guide.
Lightsaber light is dim.	<ul style="list-style-type: none">◦ Batteries are low.◦ Environmental lighting is too bright.	<ul style="list-style-type: none">◦ Replace batteries with new LR754 button cells.◦ Observe the lightsaber in a darker environment for optimal visibility.
Parts do not fit together.	<ul style="list-style-type: none">◦ Incorrect part orientation.◦ Manufacturing variation.	<ul style="list-style-type: none">◦ Refer to the Project Guide for correct part orientation and assembly sequence.◦ If parts still do not fit, contact customer support.

SPECIFICATIONS

- **Product Dimensions:** 7.24 x 1.5 x 10 inches
- **Item Weight:** 5.6 ounces
- **Item Model Number:** 225622
- **Manufacturer Recommended Age:** 6 years and up
- **Manufacturer:** Horizon Group USA
- **Power Source:** 3 x LR754 Button Cell Batteries (per lightsaber)

EXPLORING STEM CONCEPTS

This kit is designed to be a STEM-certified science kit, merging the excitement of Star Wars with real-world technology education. As you build, you will discover the science behind:

- **LEDs (Light-Emitting Diodes):** Learn how these small semiconductor light sources produce the vibrant colors of your lightsabers.
- **Fiber Optics:** Understand how light is transmitted through thin, flexible fibers, allowing the lightsaber blade to glow uniformly.
- **Dynamics of Light:** Explore principles of light, matter, crystals, and energy sources, as detailed in the accompanying educational poster.





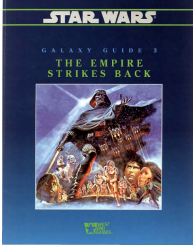


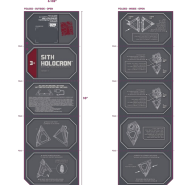
Image 6: An infographic illustrating scientific concepts, such as the sun as a powerful energy source, connecting them to the Star Wars universe and lightsaber technology.

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available documentation. For any product support, inquiries, or to report missing/defective parts, please contact the manufacturer, Horizon Group USA, directly. Refer to the product packaging for their contact details or visit their official website.



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	<p>Star Wars Lightsaber Prop Guidebook: A Deep Dive into Iconic Prop Design</p> <p>Discover the intricate details of Star Wars lightsaber props with this comprehensive guidebook by Seth M. Sherwood. Explore variants from the Original, Prequel, and Sequel Trilogies, including component analysis and construction techniques.</p>
	<p>DIY Star Wars Beer Tap Handles: Darth Vader & R2-D2 Custom Craft</p> <p>A step-by-step guide to creating custom Star Wars-themed beer tap handles featuring Darth Vader and R2-D2, using MDF, CNC carving, and detailed painting techniques.</p>
	<p>Star Wars Galaxy Guide 3: The Empire Strikes Back RPG Sourcebook</p> <p>Explore the iconic 'The Empire Strikes Back' era with West End Games' Star Wars Galaxy Guide 3. This comprehensive RPG sourcebook details characters, planets, vehicles, and lore for fans and role-players, featuring Hoth, Dagobah, and key figures like Darth Vader, Luke Skywalker, and Boba Fett.</p>
	<p>Star Wars Unlimited: Reglas Completas</p> <p>Reglamento completo del juego de cartas coleccionables Star Wars: Unlimited, detallando todas las reglas, mecánicas, y estructura de juego para una experiencia profunda.</p>
	<p>Star Wars Waffle Maker WM5-SRW-DVST: Operating, Safety, and Recipe Guide</p> <p>Comprehensive guide for the Star Wars Waffle Maker WM5-SRW-DVST, covering operating instructions, important safety information, care and maintenance, and a Belgian waffle recipe. Includes definitions of safety alert symbols and tips for optimal waffle making.</p>
	<p>Star Wars Sith Holocron Series 2 User Guide</p> <p>Instructions and information for the Star Wars Sith Holocron Series 2, including activation, crystal insertion, and connecting with other holocrons.</p>