

OWI Inc OWI-844

OWI OWI-844 Cyber Hand: Robotic STEM Kit Instruction Manual

Model: OWI-844 | Brand: OWI Inc

1. INTRODUCTION

The OWI OWI-844 Cyber Hand is a mechanical STEM kit designed to provide an engaging and educational experience in robotics and hydraulics. This kit allows users to assemble a large, functional robotic hand that operates without the need for motors, water, or electricity. It measures 16 inches in length, offering an impressive scale for interaction.

Key features include:

- **16-inch Length:** Provides a substantial and interactive experience.
- **Mechanical STEM Tool:** Focuses on hands-on learning of engineering principles.
- **Object Manipulation:** Capable of picking up and manipulating small objects.
- **Spring-Loaded Flexors:** Enables realistic finger movement and gripping.
- **Adjustable Palm Plate:** Allows customization for different hand sizes.
- **No External Power Required:** Operates purely through mechanical and hydraulic principles.

2. SAFETY INFORMATION

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years.

- Always supervise young children during assembly and play.
- Keep all packaging and small components away from infants and young children.
- Ensure all connections are secure before operation to prevent accidental detachment of parts.
- Read the entire instruction manual carefully before beginning assembly or operation.

3. PACKAGE CONTENTS

The OWI OWI-844 Cyber Hand kit includes all necessary components for assembly. Please verify that all parts are

present before beginning construction.

- OWI OWI-844: Cyber Hand components (over 200 pieces)
- Detailed instruction manual

4. ASSEMBLY INSTRUCTIONS

The OWI OWI-844 Cyber Hand is a build-it-yourself kit comprising over 200 individual pieces. Assembly involves connecting various mechanical and hydraulic components to form the functional robotic hand. The process is designed to be educational, demonstrating principles of engineering and robotics.

Required Tools (Not Included):

- Small Phillips head screwdriver
- Scissors or diagonal cutters (for trimming plastic parts)

Follow the step-by-step instructions provided in the included manual for detailed guidance on assembling your Cyber Hand. Pay close attention to diagrams and part numbers to ensure correct construction.



Figure 1: Fully assembled OWI Cyber Hand.

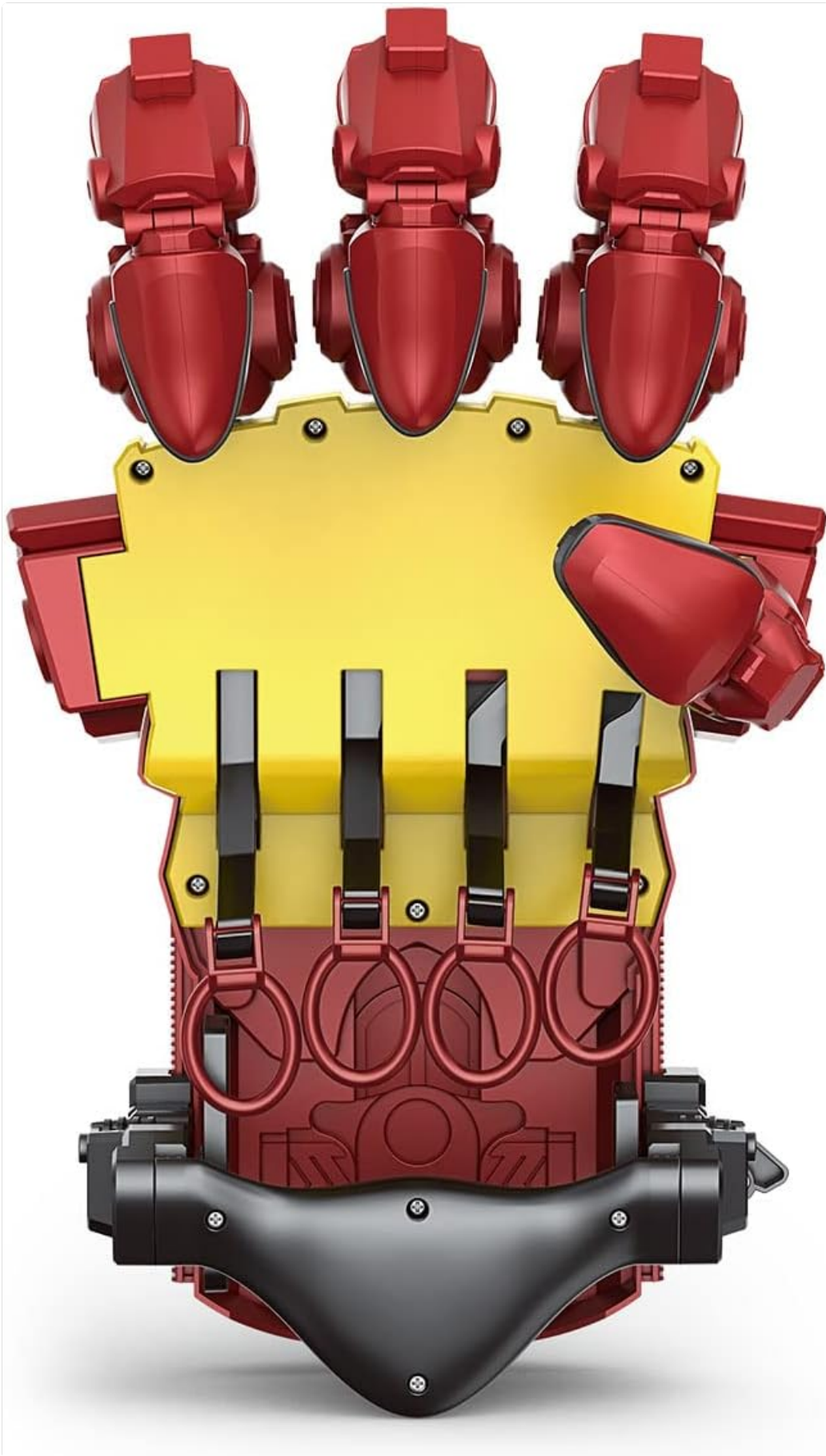


Figure 2: Rear view of the Cyber Hand, highlighting the finger control rings and adjustable palm plate.

Important Tips:

- Carefully remove parts from the plastic frames to avoid damage.
- Ensure all hydraulic tubes are securely connected to prevent leaks and ensure proper function.
- The adjustable palm plate can be configured to fit various hand sizes. Refer to the manual for adjustment

steps.

Your browser does not support the video tag.

Video 1: An overview of the OWI Cyber Hand, demonstrating its features and assembly process.

5. OPERATION

Once assembled, the OWI Cyber Hand is ready for use. To operate, insert your fingers into the designated rings on the palm plate. The hand's movements are controlled by flexing your own fingers, which activate the hydraulic system to move the robotic fingers.

- **Finger Control:** Each robotic finger is connected to a ring. Flexing your finger will cause the corresponding robotic finger to move.
- **Gripping Objects:** Use the coordinated movement of the fingers and thumb to pick up and hold various objects.
- **Adjustable Palm:** The palm plate can be adjusted to accommodate different hand sizes, ensuring comfortable and effective control.



Figure 3: The Cyber Hand with fingers extended, ready for operation.

6. MAINTENANCE

- **Cleaning:** Wipe the Cyber Hand with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.

- **Storage:** Store the Cyber Hand in a cool, dry place away from direct sunlight to prevent material degradation.
- **Hydraulic System:** Periodically check hydraulic tubes for any kinks or damage. Ensure water reservoirs are filled as needed for optimal performance.

7. TROUBLESHOOTING

- **Fingers not moving smoothly:** Check for any obstructions in the joints or kinks in the hydraulic tubes. Ensure the water reservoirs are adequately filled.
- **Loose connections:** Re-examine all connections, especially the hydraulic tubes, to ensure they are firmly attached.
- **Difficulty fitting hand:** Adjust the palm plate according to the instructions in the manual to achieve a comfortable fit.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	2.25 x 6.5 x 9.5 inches
Item Weight	1.63 pounds
Item Model Number	OWI-844
Manufacturer Recommended Age	8 - 12 years
Power Source	Hydraulic (water-powered)

9. WARRANTY AND SUPPORT

For any questions, concerns, or support regarding your OWI OWI-844 Cyber Hand, please contact OWI Inc. customer service. Refer to the product packaging or the official OWI Inc. website for the most up-to-date contact information and warranty details.

Visit the [OWI Inc. Store](#) for more products and information.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question