



Manuals.plus /

- › LEGO /
- › LEGO Technic Liebherr R 9800 Excavator 42100 Instruction Manual

LEGO 42100

LEGO Technic Liebherr R 9800 Excavator 42100 Instruction Manual

Model: 42100 (6277413)

INTRODUCTION

This instruction manual provides comprehensive guidance for the assembly, operation, and maintenance of the LEGO Technic Liebherr R 9800 Excavator (Model 42100). This advanced building kit offers a detailed replica of the Liebherr R 9800 Excavator, featuring app-controlled functions for realistic movement and play. Please read this manual thoroughly before beginning assembly or operation to ensure proper use and to maximize your experience.

PRODUCT OVERVIEW

The LEGO Technic Liebherr R 9800 Excavator is a highly detailed and functional model designed for builders aged 12 and up. It consists of 4,108 pieces and is controlled via the LEGO TECHNIC CONTROL+ app, utilizing two advanced Smart Hubs and seven motors. This model provides an immersive building and play experience, replicating the complex movements and operations of a real Liebherr R 9800 Excavator.



Image: The LEGO Technic Liebherr R 9800 Excavator 42100 set, showing the product box and the fully assembled model with loose LEGO elements.

Key Features:

- **App-Controlled Functionality:** Operated via the LEGO TECHNIC CONTROL+ app for precise control.
- **Advanced Motor System:** Powered by 2 Smart Hubs with 7 motors for complex movements.
- **Realistic Movements:** Drive, rotate superstructure, extend/raise boom, open/tilt bucket.
- **Real-time Feedback:** App provides data on boom position, power usage, and drive distance.
- **Detailed Design:** Authentic color scheme and sticker detailing replicating the Liebherr R 9800.

SETUP AND ASSEMBLY

Assembly of the LEGO Technic Liebherr R 9800 Excavator is a multi-step process. It is recommended to follow the detailed building instructions provided in the box. Ensure you have a clear, organized workspace.

Before You Begin:

- **Unpack Components:** Carefully open the box and sort the LEGO elements.
- **Check Parts List:** Verify all necessary parts are present using the included parts list.
- **Download App:** Download the LEGO TECHNIC CONTROL+ app from your device's app store. The app is essential for operating the model.
- **Batteries:** Ensure you have the required batteries for the Smart Hubs (batteries are not included).

Assembly Steps:

1. Follow the step-by-step visual instructions provided in the physical building manual.
2. Pay close attention to the orientation of Technic pins and axles.
3. Connect the motors and Smart Hubs as indicated in the instructions. Ensure all connections are secure.
4. Once assembly is complete, install the required batteries into the Smart Hubs.

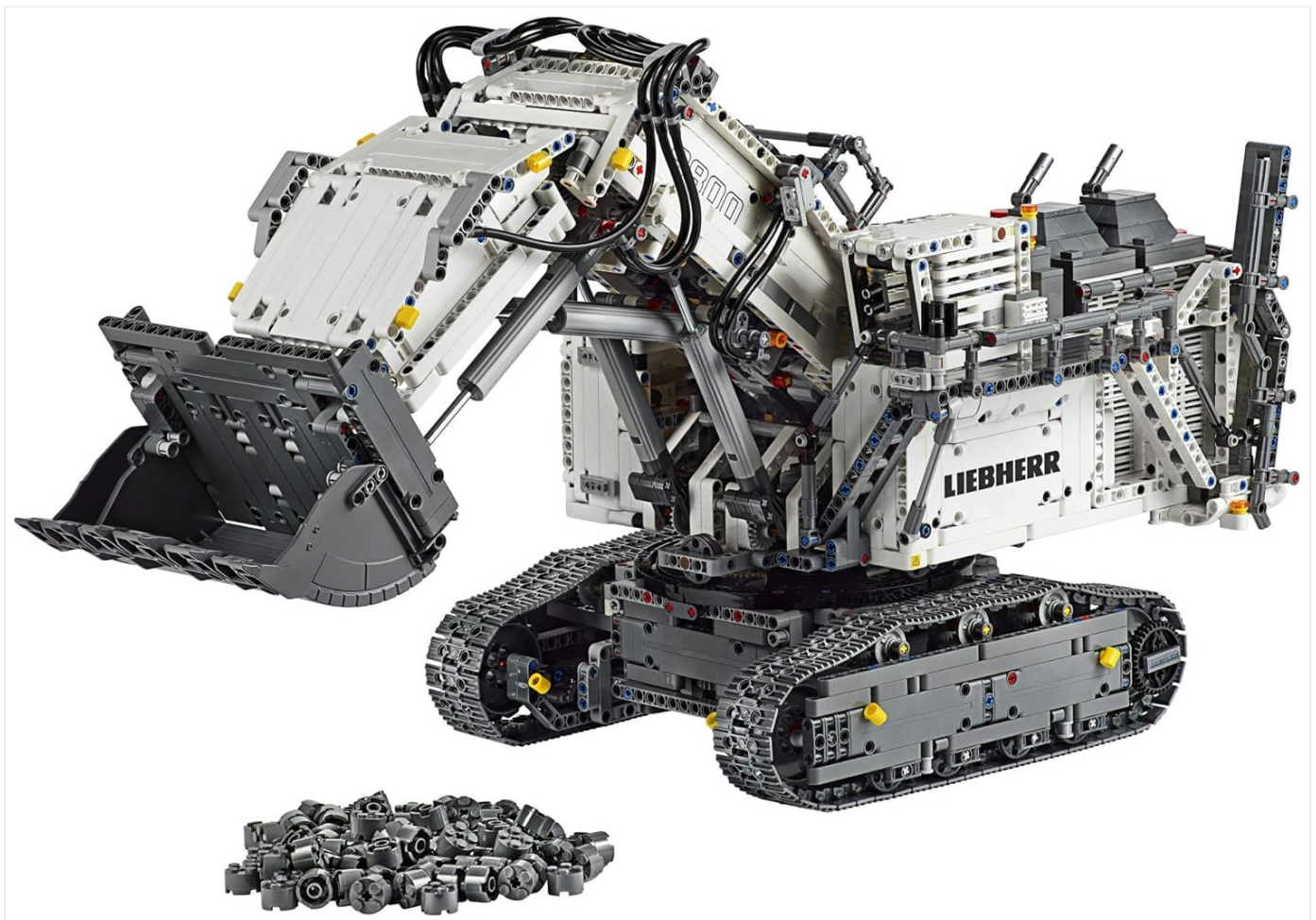


Image: A detailed view of the fully assembled LEGO Technic Liebherr R 9800 Excavator, showcasing its intricate design and functional components.

OPERATING INSTRUCTIONS

The LEGO Technic Liebherr R 9800 Excavator is operated exclusively through the LEGO TECHNIC CONTROL+ app. Ensure your device is connected to the Smart Hubs via Bluetooth.

App Control Screens:

- **Multi-function Control Screen:** Allows for driving the machine in all directions, rotating the superstructure, extending and raising the boom, and opening/tilting the bucket. Provides realistic sound effects and real-time

feedback (boom position, power usage, drive distance).

- **One-touch Screen:** Use drag patterns to control the boom, arm, and bucket with simplified gestures.
- **Custom-built Movements Screen:** Choose pre-set commands or record the model's actions to create complex sequences of movements.
- **Challenges & Achievements Screen:** Engage in challenges to unlock reward badges and enhance the play experience.



Image: A person interacting with the LEGO Technic Liebherr R 9800 Excavator using a smartphone, demonstrating the app-controlled functionality.

Basic Operations:

1. **Power On:** Press the button on each Smart Hub to turn them on.
2. **Connect to App:** Open the LEGO TECHNICAL CONTROL+ app and follow the on-screen prompts to connect to your model.
3. **Driving:** Use the virtual joysticks or directional controls on the Multi-function screen to move the excavator forward, backward, and turn.
4. **Excavator Arm Control:** Utilize the controls to raise, lower, extend, and retract the boom and arm.
5. **Bucket Operation:** Control the bucket to open, close, and tilt for digging and dumping actions.

6. **Superstructure Rotation:** Rotate the entire upper structure of the excavator for precise positioning.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LEGO Technic Liebherr R 9800 Excavator.

Cleaning:

- Use a soft, dry cloth to gently wipe down the model.
- For stubborn dust, a slightly damp cloth can be used, but ensure no water enters the Smart Hubs or motor components.
- Avoid using harsh chemicals or abrasive cleaners.

Storage:

- Store the model in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove batteries from the Smart Hubs to prevent leakage.

Battery Replacement:

- When battery power is low, the app may indicate reduced performance or a warning.
- Replace all batteries in the Smart Hubs simultaneously with new, high-quality batteries of the specified type.
- Dispose of used batteries responsibly according to local regulations.

TROUBLESHOOTING

If you encounter issues with your LEGO Technic Liebherr R 9800 Excavator, refer to the following common solutions:

Problem	Possible Cause	Solution
Model does not respond to app commands.	Batteries are low or depleted. Smart Hubs are not powered on. Bluetooth connection issue. App is not updated.	Replace batteries in Smart Hubs. Ensure Smart Hubs are turned on. Restart the app and your device. Re-establish Bluetooth connection. Update the LEGO TECHNIC CONTROL+ app to the latest version.
Movements are sluggish or inconsistent.	Low battery power. Gears are jammed or misaligned. Excessive weight or obstruction.	Replace batteries. Inspect visible gears for obstructions or incorrect assembly. Refer to building instructions. Ensure the model is operating on a flat surface and not overloaded.
App crashes or freezes.	Outdated app version. Device compatibility issues. Insufficient device memory.	Update the app. Check app store for device compatibility requirements. Close other applications running in the background.

SPECIFICATIONS

Feature	Detail
Model Number	42100 (6277413)
Brand	LEGO Technic
Number of Pieces	4,108
Control System	LEGO TECHNIC CONTROL+ App
Power Source	2 Advanced Smart Hubs with 7 Motors (Batteries not included)
Recommended Age	12 years and up
Dimensions (Assembled)	Over 15" (39cm) high, 25" (65cm) long, 10" (27cm) wide
Product Weight	Approximately 2.2 pounds (excluding packaging)

WARRANTY AND SUPPORT

For information regarding product warranty, missing parts, or technical support, please refer to the official LEGO customer service channels.

- **Official LEGO Website:** Visit www.lego.com for support, FAQs, and contact information.
- **Missing Bricks:** If you find any missing bricks, you can request replacements directly from the LEGO customer service website.
- **App Support:** For issues related to the LEGO TECHNIC CONTROL+ app, check the app's help section or the LEGO website for troubleshooting guides and updates.

