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› LEGO Technic Land Rover Defender 42110 Building Kit Instruction Manual

LEGO 42110

LEGO Technic Land Rover Defender 42110 Instruction Manual

Model: 42110

INTRODUCTION

This manual provides detailed instructions and information for the assembly, operation, and maintenance of your LEGO Technic Land Rover Defender 42110 building kit. This highly authentic replica model, developed in partnership with Land Rover, offers an immersive and rewarding building experience with its intricate details and functional mechanisms. The kit contains 2573 pieces and is recommended for builders aged 11 and up. Upon completion, the model measures over 8 inches (22cm) high, 16 inches (42cm) long, and 7 inches (20cm) wide.



Image: The fully assembled LEGO Technic Land Rover Defender 42110, showcasing its detailed design and the product packaging.

KEY FEATURES

The LEGO Technic Land Rover Defender 42110 model incorporates several realistic features and functions:

- **Authentic Design:** Captures the clean, modern lines and sculpted surfaces of the 2019 Land Rover Defender.
- **Working Steering:** Functional steering mechanism controlled by the steering wheel.
- **4-Speed Sequential Gearbox:** The most sophisticated LEGO Technic gearbox to date, featuring 2 levers for engaging high or low gear ratios and a selector for changing gears.
- **All Wheel Drive (AWD):** Equipped with 3 differentials for realistic power distribution.
- **Independent Suspension:** Independent suspension on both axles for enhanced realism.
- **Detailed In-line 6-Cylinder Engine:** Features moving pistons visible beneath the bonnet.
- **Working Winch:** A functional winch located at the front of the vehicle.
- **Opening Elements:** Doors, bonnet, and tail door (operated by the rear-mounted spare wheel) can be opened.

- **Elaborate Cabin:** Detailed dashboard and forward-folding rear seats providing access to the gearbox.
- **Accessories:** Removable roof rack with storage box, pannier, ladder, and traction mats.



Image: A detailed side view of the LEGO Technic Land Rover Defender 42110, showing its wheels, roof rack, and overall proportions.

SETUP AND ASSEMBLY

The assembly process for the LEGO Technic Land Rover Defender 42110 is designed to be immersive and challenging. Follow the included step-by-step instruction booklets carefully to ensure correct construction.

Preparation:

1. **Unpack Components:** Carefully open the packaging and lay out all numbered bags and instruction booklets.
2. **Organize Pieces:** It is recommended to sort pieces by color and type, or by bag number as indicated in the instructions, to facilitate the building process.
3. **Clear Workspace:** Ensure you have a clean, well-lit, and spacious area for assembly.

Building Process:

- **Follow Instructions:** Adhere strictly to the visual instructions provided in the manual. Each step builds upon the previous one.
- **Pay Attention to Detail:** Technic models often require precise alignment of pins and axles, especially for functional components like the gearbox and steering. Double-check each connection.
- **Test Mechanisms:** As you build functional sections (e.g., gearbox, suspension), gently test their movement to ensure they operate smoothly before proceeding to the next steps.

- **Take Your Time:** The complexity of this model means rushing can lead to errors. Enjoy the building process.



Image: The front of the LEGO Technic Land Rover Defender 42110 packaging, illustrating the completed model against a mountainous backdrop.

OPERATING FUNCTIONS

Once assembled, your LEGO Technic Land Rover Defender offers several interactive functions:

- **Steering:** Rotate the steering wheel inside the cabin to control the front wheels. The steering mechanism is fully functional.
- **Gearbox:** The model features a sophisticated 4-speed sequential gearbox. Use the two levers in the cabin to select high or low gear ratios, and the selector to change between the four forward gears. Observe the internal mechanisms through the folding rear seats.
- **Engine:** Open the bonnet to reveal the in-line 6-cylinder engine. As the vehicle moves, the pistons within the engine will move realistically.
- **Suspension:** The independent suspension on both axles allows the model to articulate over uneven surfaces, mimicking a real Land Rover Defender.

- **Winch:** The front-mounted winch can be operated manually. Follow the instructions to extend and retract the winch cable.
- **Doors and Bonnet:** The driver and passenger doors, as well as the bonnet, can be opened to access the detailed interior and engine bay.
- **Tail Door:** The rear tail door can be opened by rotating the spare wheel mounted on it.



Image: A hand demonstrates opening the bonnet of the LEGO Technic Land Rover Defender 42110, providing a view of the detailed engine compartment.

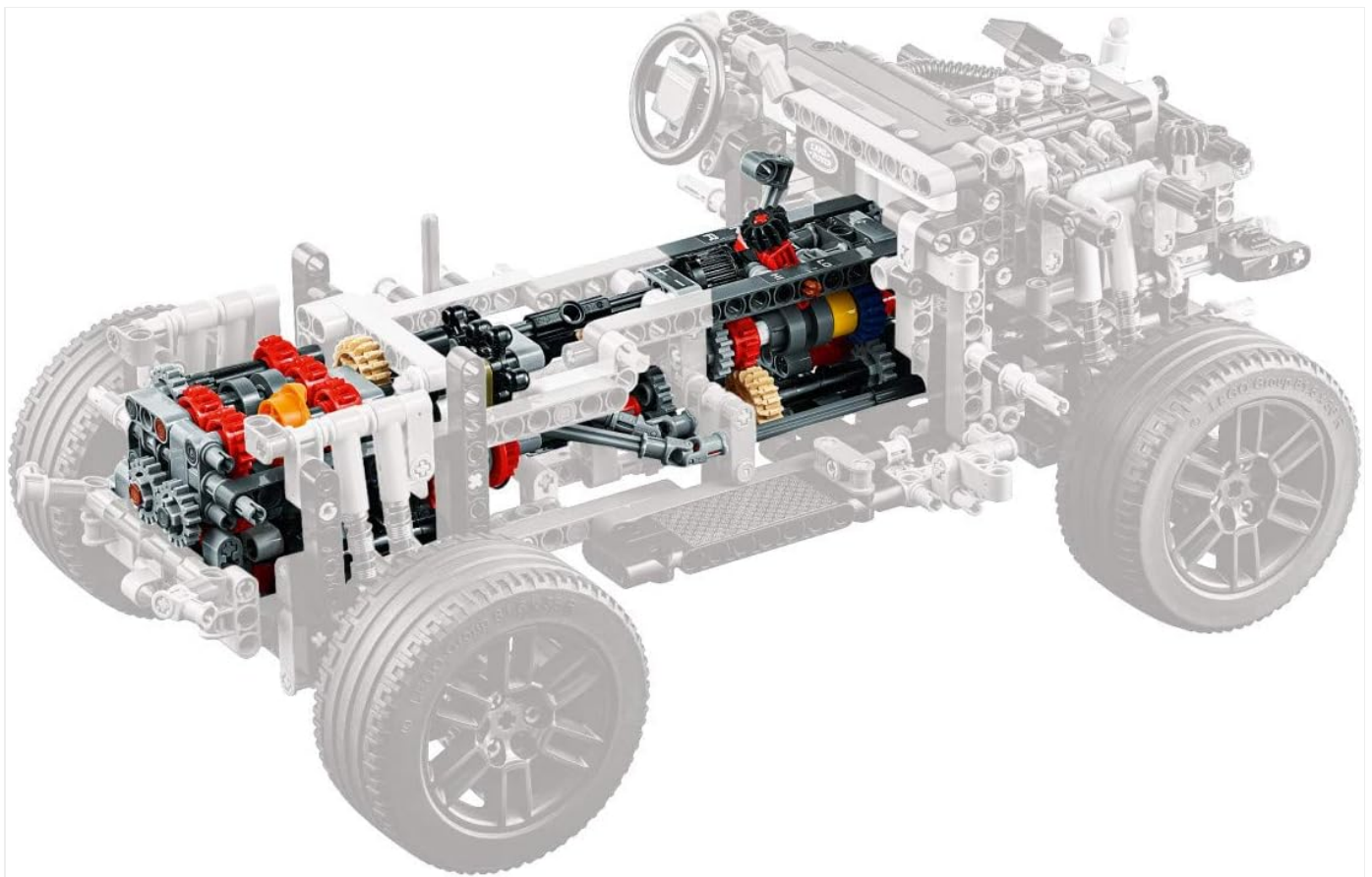


Image: An internal view of the LEGO Technic Land Rover Defender 42110 chassis, illustrating the complex gearbox, differentials, and suspension components.

MAINTENANCE

Proper care will ensure the longevity and functionality of your LEGO Technic model.

- **Cleaning:** To clean your LEGO bricks, wipe them with a soft, damp cloth. For more thorough cleaning, use mild soap and water (not exceeding 40°C / 104°F). Rinse thoroughly and air dry. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent discoloration or warping of plastic elements.
- **Dusting:** Regularly dust the model with a soft brush or compressed air to prevent dust buildup in moving parts.
- **Handling:** Handle the model with care, especially when operating its functions, to avoid putting undue stress on the Technic elements.

TROUBLESHOOTING

If you encounter issues with your LEGO Technic Land Rover Defender, consider the following common solutions:

- **Gears Not Engaging/Smooth:** This is often due to incorrect assembly or misalignment of gears within the gearbox. Carefully review the relevant steps in the instruction manual, particularly those involving the transmission system. Disassemble and reassemble the section, ensuring all pins and axles are fully inserted and aligned.
- **Stiff Movement:** If steering, suspension, or other moving parts feel stiff, check for any pieces that might be rubbing or incorrectly placed. Ensure no extra pieces are causing friction. Sometimes, simply working the mechanism gently can help loosen it.
- **Missing Pieces:** While rare, if you find a piece missing, please refer to the 'Support' section below to contact LEGO Customer Service for assistance. Do not attempt to force incompatible pieces.

- **Model Instability:** If the model feels wobbly or unstable, re-examine the structural connections, especially the chassis and main frame. Ensure all Technic pins and connectors are fully seated.

SPECIFICATIONS

Product Name	LEGO Technic Land Rover Defender
Model Number	42110
Number of Pieces	2573
Recommended Age	11 years and up
Product Dimensions	22.91 x 18.9 x 3.58 inches (Box)
Assembled Dimensions	Over 8 inches (22cm) high, 16 inches (42cm) long, and 7 inches (20cm) wide
Item Weight	2.2 pounds
Release Date	October 1, 2019

WARRANTY INFORMATION

LEGO products are manufactured to high-quality standards. If you believe there is a defect in materials or workmanship, please contact LEGO Customer Service. LEGO offers a limited warranty on its products, covering manufacturing defects. This warranty typically does not cover damage resulting from misuse, accident, modification, or normal wear and tear. For specific details regarding warranty terms and conditions, please refer to the official LEGO website or contact their customer support directly.

SUPPORT

For further assistance, missing parts, or inquiries regarding your LEGO Technic Land Rover Defender 42110, please contact LEGO Customer Service:

- **Online:** Visit the official LEGO website and navigate to the 'Customer Service' or 'Support' section. You can often find FAQs, replacement part ordering, and contact forms there.
- **Phone:** Contact numbers for LEGO Customer Service are typically available on their website, specific to your region.
- **Mail:** Postal addresses for customer service may also be provided on the official LEGO website.

When contacting support, please have your model number (42110) and any relevant purchase information ready.

