

## LESU Aoue BL71

# LESU 1/14 Hydraulic RC Backhoe Loader Model Aoue BL71 Instruction Manual

Model: Aoue BL71

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## 1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, maintenance, and troubleshooting of your LESU 1/14 Hydraulic RC Backhoe Loader Model Aoue BL71. Please read this manual thoroughly before operating the model to ensure safe and correct usage. This highly detailed 1/14 scale model features a hydraulic system, light and sound effects, and a versatile 2-in-1 design functioning as both an excavator and a loader.



Figure 1.1: The LESU 1/14 Hydraulic RC Backhoe Loader Model Aoue BL71, including the remote control and battery.



Figure 1.2: The LESU 1/14 Aoue BL71 Backhoe Loader in a simulated work environment.

## 2. SAFETY INFORMATION

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Operating remote-controlled construction vehicles requires attention to safety. Please observe the following guidelines:

- **Adult Supervision:** This product is recommended for individuals 21 years and up. Adult supervision is advised during operation, especially for less experienced users.
- **Operating Environment:** Operate the model in open, clear areas away from people, pets, and obstacles. Avoid public roads, crowded places, and areas with water or uneven terrain that could cause damage or accidents.
- **Battery Safety:** Use only recommended batteries and chargers. Follow all battery charging and handling instructions to prevent fire, explosion, or injury. Do not overcharge or short-circuit batteries.
- **Moving Parts:** Keep hands, hair, and loose clothing away from all moving parts, including wheels, hydraulic arms, and buckets, to prevent entanglement or injury.
- **Hydraulic System:** The hydraulic system operates under pressure. Do not attempt to modify or tamper with the hydraulic components. Ensure all connections are secure before operation.
- **Electrical Components:** Keep the model dry. Exposure to moisture can damage electronic components and lead to malfunction.
- **Maintenance:** Perform regular checks and maintenance as described in this manual. Do not operate the model if any parts are damaged or malfunctioning.

## 3. COMPONENTS OVERVIEW

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The LESU Aoue BL71 Backhoe Loader is comprised of several key components designed for realistic operation and durability.





Figure 3.1: Key features and components of the Aoue BL71 Backhoe Loader.

### 3.1 Main Features

- **Chassis:** CNC metal shell for durability.
- **Wheels & Tires:** Front and rear aluminum alloy wheels with high-quality rubber tire covers.
- **Drive System:** Full drive 4x4 power differential locking axle with a 1:2.7 reduction ratio for front and rear axles.
- **Front Loader:** Equipped with a stainless steel bucket and hydraulic opening/closing function. Features a multifunctional fork.
- **Backhoe Arm:** Rear digging arm with a digging assembly that moves laterally for increased digging range. Includes an excavator grab.
- **Hydraulic System:** Precise system with hydraulic reversing valve, switching valve, brushless ESC, oil pump, fine stainless steel oil cylinders, and overflow valve.
- **Support Legs:** Hydraulic support legs for stable operation.
- **Cab:** Rotary cab seat for dual-end operation, high simulation details.
- **Electronics:** Integrated light system and sound system for enhanced realism.



Figure 3.2: Detailed view of the operator's cab and warning light.



Figure 3.3: Detailed view of the backhoe arm assembly.

## 4. SETUP

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### 4.1 Unboxing and Inspection

Carefully remove all components from the packaging. Inspect the model for any signs of damage during transit. Ensure all parts listed in the packing list are present.



Figure 4.1: The product packaging for the LESU Aoue BL71 Backhoe Loader.

## 4.2 Battery Installation and Charging

1. Locate the battery compartment on the model.
2. Connect the provided battery to the model's power connector. Ensure the polarity is correct.
3. Secure the battery within its compartment.
4. For initial use, fully charge the battery using the supplied charger according to the charger's instructions. Do not leave charging batteries unattended.

## 4.3 Transmitter (Remote Control) Setup

The model comes with a PL18EV Lite remote control. Refer to the separate PL18EV Lite manual for detailed setup and binding procedures. Ensure the transmitter batteries are installed and charged.

## 4.4 Initial Checks

- Verify all hydraulic lines are securely connected and free from leaks.
- Check that all moving parts (arms, buckets, wheels) move freely without obstruction.
- Ensure the model and transmitter are powered on and properly bound.

# 5. OPERATING INSTRUCTIONS

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Familiarize yourself with the remote control functions before operating the model. The Aoue BL71 offers both loader and excavator functionalities.

## 5.1 Basic Driving Controls

- **Forward/Reverse:** Typically controlled by a joystick on the transmitter.
- **Steering:** Controlled by another joystick or steering wheel on the transmitter.



- **Differential Lock:** Engage the differential lock for improved traction on uneven or slippery surfaces.

## 5.2 Front Loader Operation (Mobile Mode)

The front loader is designed for scooping, lifting, and dumping materials.



Figure 5.1: The Aoue BL71 configured for front loader operation.

- **Lifting/Lowering Arm:** Use the designated joystick (e.g., 'Big Arm control' as shown in Figure 5.2) to raise or lower the front loader arm.
- **Bucket Tilt:** Use another control (e.g., 'Open and close bucket' as shown in Figure 5.3) to tilt the bucket for scooping or dumping.
- **Multifunctional Fork:** The front bucket can be switched to a forklift mode for handling pallets or other objects.





Figure 5.2: Remote control input for raising/lowering the front loader arm.



Figure 5.3: Remote control input for tilting the front loader bucket.

### 5.3 Backhoe Operation (Working Mode)

The rear backhoe arm is used for digging and excavation tasks.



Figure 5.4: The Aoue BL71 configured for backhoe operation.

- **Stabilizer Legs:** Extend the hydraulic support legs before beginning excavation to ensure stability.

- **Arm Movement:** Control the main boom, stick, and bucket movements using the designated joysticks on the transmitter.
- **Lateral Movement:** The rear digging assembly can move laterally to increase the digging range without repositioning the entire vehicle.
- **Excavator Grab:** Utilize the excavator grab for handling specific materials or for more precise digging.



Figure 5.5: Remote control input for extending and retracting the rear backhoe forearm.

## 5.4 Light and Sound System

The model features a realistic light and sound system. These functions are typically controlled via switches or buttons on the remote control. Refer to your PL18EV Lite manual for specific assignments.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your LESU Aoue BL71.

### 6.1 Cleaning

- After each use, clean the model to remove dirt, dust, and debris. Use a soft brush or compressed air for hard-to-reach areas.
- Wipe down surfaces with a damp cloth. Avoid using harsh chemicals or excessive water, especially near electronic components.

### 6.2 Lubrication

- Periodically lubricate moving joints and pivot points with a suitable RC-grade lubricant to ensure smooth operation and prevent wear.
- Check hydraulic fluid levels and top up if necessary, using only the recommended hydraulic oil. Consult the manufacturer for specific oil types.

### 6.3 Battery Care and Storage

- Always disconnect the battery from the model when not in use.
- Store batteries in a cool, dry place, away from direct sunlight and flammable materials.
- For long-term storage, charge batteries to a storage voltage (typically around 3.8V per cell for LiPo batteries).

### 6.4 General Inspection

- Regularly check all screws and fasteners for tightness.
- Inspect hydraulic lines for kinks, cracks, or leaks.
- Examine tires for wear and tear.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your LESU Aoue BL71.

Problem	Possible Cause	Solution
Model does not power on.	Battery not connected or discharged. Transmitter not powered on.	Ensure battery is connected and charged. Turn on transmitter.
No response from controls.	Model and transmitter not bound. Low transmitter battery.	Re-bind transmitter and receiver. Replace/charge transmitter batteries.
Hydraulic functions are weak or slow.	Low hydraulic fluid. Air in the hydraulic system. Overload.	Check and refill hydraulic fluid. Bleed the hydraulic system (refer to advanced maintenance). Reduce load.
Unusual noises during operation.	Loose parts. Obstruction in moving components. Motor/gear issue.	Inspect for loose screws or foreign objects. If noise persists, discontinue use and contact support.
Model drifts or pulls to one side.	Steering trim incorrect. Uneven tire pressure (if applicable).	Adjust steering trim on the transmitter. Check tire condition.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	LESU 1/14 Hydraulic RC Backhoe Loader Model Aoue BL71
Scale	1/14
Product Dimensions	33.2 x 16.8 x 15.2 inches (84.3 x 42.7 x 38.6 cm)
Manufacturer	LESU
Recommended Age	21 years and up
Drive System	4x4 with differential locking axles
Hydraulic System	Equipped with reversing valve, switching valve, brushless ESC, oil pump, stainless steel cylinders, overflow valve.
Material	CNC Metal Shell
Features	Light System, Sound System, Rotary Cab Seat, Multifunctional Front Fork, Hydraulic Open/Close Bucket, Lateral Moving Backhoe Arm.

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

LESU products are manufactured to high standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official LESU website. The warranty typically covers manufacturing defects under normal use.

## 9.2 Customer Support

If you encounter any issues or have questions regarding your LESU 1/14 Hydraulic RC Backhoe Loader Model Aoue BL71 that are not covered in this manual, please contact LESU customer support. Contact information can usually be found on the product packaging, the official LESU website, or through your retailer.

When contacting support, please have your model number (Aoue BL71) and purchase information readily available.

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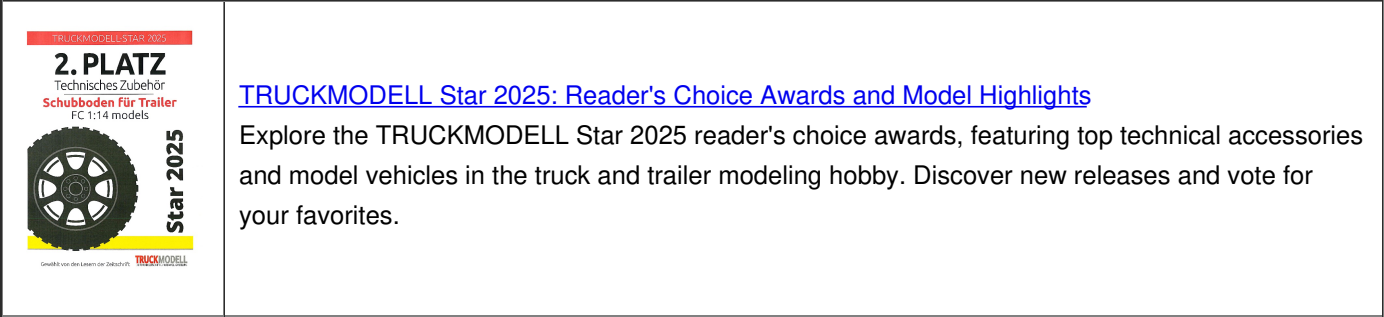
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## Related Documents - Aoue BL71



A horizontal banner divided into two sections. The left section has a white background with a red header bar at the top containing the text 'TRUCKMODELL Star 2025'. Below this, the text '2. PLATZ' is prominently displayed in large, bold, black letters. Underneath, it says 'Technisches Zubehör' in smaller black text, followed by 'Schubboden für Trailer' in red text, and 'FC 1:14 models' in smaller black text. To the left of the text is a black and white image of a truck wheel. To the right of the text, 'Star 2025' is written vertically in bold black letters. At the bottom left, there is a small yellow bar with the text 'Gewählt von den Lesern der Zeitschrift' and the 'TRUCKMODELL' logo. The right section of the banner has a light blue background. It features the title 'TRUCKMODELL Star 2025: Reader's Choice Awards and Model Highlights' in a blue, underlined font. Below the title, a paragraph of text reads: 'Explore the TRUCKMODELL Star 2025 reader's choice awards, featuring top technical accessories and model vehicles in the truck and trailer modeling hobby. Discover new releases and vote for your favorites.'

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**1. Backhoe loader:**

- 1.1. KUBOTA, capacity capacity of 4.4 tons, diesel, 90 horsepower, 645.
- 1.2. KUBOTA, capacity capacity of 4.4 tons, diesel, 645.
- 1.3. Yanmar, capacity capacity of 4.4 tons, diesel, 645.
- 1.4. CASE 925B, capacity capacity of 4.4 tons, diesel, 645.
- 1.5. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.
- 1.6. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.
- 1.7. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.
- 1.8. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.
- 1.9. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.
- 1.10. CAT 320C, capacity capacity of 4.4 tons, diesel, 645.

**2. Tractor-trailer:**

- 2.1. Caterpillar, 4.4 tons.
- 2.2. Caterpillar, 4.4 tons.
- 2.3. Caterpillar, 4.4 tons.
- 2.4. Caterpillar, 4.4 tons.
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- 2.10. Caterpillar, 4.4 tons.

**3. Generator:**

- 3.1. Caterpillar, 4.4 tons.
- 3.2. Caterpillar, 4.4 tons.
- 3.3. Caterpillar, 4.4 tons.
- 3.4. Caterpillar, 4.4 tons.
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- 3.10. Caterpillar, 4.4 tons.

**4. Chainsaw:**

- 4.1. Caterpillar, 4.4 tons.
- 4.2. Caterpillar, 4.4 tons.
- 4.3. Caterpillar, 4.4 tons.
- 4.4. Caterpillar, 4.4 tons.
- 4.5. Caterpillar, 4.4 tons.
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- 4.9. Caterpillar, 4.4 tons.
- 4.10. Caterpillar, 4.4 tons.

**5. Vehicle:**

- 5.1. Caterpillar, 4.4 tons.
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- 5.3. Caterpillar, 4.4 tons.
- 5.4. Caterpillar, 4.4 tons.
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- 5.9. Caterpillar, 4.4 tons.
- 5.10. Caterpillar, 4.4 tons.

**6. Winter gear:**

- 6.1. Caterpillar, 4.4 tons.
- 6.2. Caterpillar, 4.4 tons.
- 6.3. Caterpillar, 4.4 tons.
- 6.4. Caterpillar, 4.4 tons.
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