LESU AT1050

LESU AT1050 1/14 RC Hydraulic Telescopic Arm Loader User Manual

Model: AT1050 | Brand: LESU

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your LESU AT1050 1/14 scale RC Hydraulic Telescopic Arm Loader. This model is a highly detailed, hobby-grade replica featuring a hydraulic system, light, and sound functions. Please read this manual thoroughly before operating the model to ensure proper function and longevity.

2. PACKAGE CONTENTS

2.1 Included Components:

- 1/14 RC Telescopic Arm Loader Model (Assembled and Painted)
- Fork Attachment
- Electronic Speed Controller (ESC)
- Motor
- Servo
- Hydraulic System (pre-installed)
- Light System (pre-installed)
- Sound System (pre-installed)

2.2 Required Components (Not Included):

- Remote Controller and Receiver
- Battery
- Charger
- Hydraulic Oil

3. SETUP

The LESU AT1050 loader is delivered assembled and painted. Before initial operation, perform the

following steps:

1. **Install Remote Control System:** Install your preferred remote controller and receiver into the model. Refer to your remote control system's manual for specific installation and binding instructions.
2. **Battery Installation:** Securely install a compatible battery (not included) into the designated battery compartment. Ensure correct polarity.
3. **Hydraulic Oil Filling:** Fill the hydraulic system with appropriate hydraulic oil (not included). Consult the hydraulic system's specific instructions for proper filling procedures and oil type. Ensure no air bubbles are present in the system.
4. **Initial Checks:**

   - Verify all connections are secure.
   - Check for any visible damage or loose parts.
   - Ensure all moving parts, especially the hydraulic arm and fork, move freely without obstruction.

5. **Function Test:** Before full operation, perform a low-speed function test in a clear area to confirm all controls (steering, arm movement, fork operation, lights, sound) respond correctly to the remote controller inputs.

Figure 3.1: The LESU AT1050 RC Hydraulic Telescopic Arm Loader with its fork attachment in a lowered position, ready for operation.

4. OPERATING INSTRUCTIONS

The LESU AT1050 is designed for realistic operation. Familiarize yourself with the controls of your remote controller before attempting complex maneuvers.

4.1 Basic Driving:

- Use the throttle stick/trigger for forward and reverse movement.
- Utilize the steering wheel/stick for left and right turns. The hydraulic steering provides precise control.

4.2 Hydraulic Arm and Fork Operation:

- The telescopic arm can be extended and retracted using the designated channel on your remote.
- The fork attachment can be raised, lowered, and tilted for various loading and unloading tasks. Practice these movements to achieve smooth and coordinated operation.
- The hydraulic fork bucket offers flexible and convenient operation for material handling.

Figure 4.1: The LESU AT1050 with its telescopic arm fully extended and the fork attachment raised, demonstrating its reach and lifting capabilities.

4.3 Light and Sound System:

- Activate the full vehicle lighting and simulated sound system via your remote controller for enhanced realism.

Figure 4.2: A detailed view of the loader's cab with the door open, showcasing the interior and the protective stainless steel cab guard.

5. FEATURES

- **Precision Hydraulic System:** Ensures coordinated, smooth, and linear movements for realistic operation.
- **Hydraulic Steering:** Provides precise steering control for stable operation.
- **Hydraulic Fork Bucket:** Offers flexible and convenient material handling.
- **Flip-open Cab:** The cab can be opened, and the entire machine features 5 openable doors for access and realism.
- **Full Vehicle Lighting and Simulated Sound:** Equipped with integrated light and sound systems for an immersive experience.
- **Simulated Stainless Steel Cab Guard:** Enhances realism and provides protection. The model is constructed with approximately 90% metal materials.

Figure 5.1: Detail of the loader's roof-mounted beacon light and front working lights, highlighting the integrated lighting system.

Figure 5.2: A closer look at the front working lights of the LESU AT1050, demonstrating their functional design.

Figure 5.3: Detailed view of the hydraulic cylinders and hoses on the loader's arm, illustrating the precision hydraulic system.

Figure 5.4: A close-up of the robust fork attachment, designed for realistic material handling.

Figure 5.5: Detail of a wheel and tire, showing the robust construction and tire tread pattern.

Figure 5.6: An underside view of the LESU AT1050, revealing the chassis, drivetrain, and hydraulic lines.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LESU AT1050 loader.

- **Cleaning:** After each use, especially in dusty or dirty environments, clean the model with a soft brush or compressed air. Avoid using water directly on electronic components.
- **Hydraulic System:**

  - Regularly check the hydraulic oil level and top up as needed with the recommended hydraulic oil.
  - Inspect hydraulic lines for leaks or damage.
  - Ensure hydraulic cylinders are clean and free of debris.

- **Moving Parts:** Periodically lubricate pivot points and gears with appropriate RC-safe lubricant to ensure smooth operation and prevent wear.
- **Battery Care:** Always disconnect the battery after use. Store batteries in a cool, dry place and follow manufacturer guidelines for charging and storage.
- **Fasteners:** Periodically check all screws and fasteners for tightness. Tighten any loose components carefully to avoid stripping threads.

7. TROUBLESHOOTING

If you encounter issues with your LESU AT1050, refer to the following common troubleshooting steps:

- **No Power:**
  - Check battery charge level.
  - Ensure battery is correctly connected and power switch is on.
  - Verify all electrical connections are secure.

- **No Response from Remote:**
  - Ensure remote controller batteries are charged.
  - Re-bind the remote controller and receiver according to their respective manuals.
  - Check for interference from other RC devices.

- **Hydraulic System Malfunction (Weak/No Movement):**
  - Check hydraulic oil level and refill if low.
  - Inspect for air bubbles in the hydraulic lines; bleed the system if necessary.
  - Check for leaks in hydraulic lines or cylinders.
  - Ensure the hydraulic pump motor is functioning.

- **Unusual Noises:**
  - Inspect gears and moving parts for obstructions or damage.
  - Check for loose screws or components.

If problems persist, contact the manufacturer or seller for further assistance.

8. SPECIFICATIONS

Parameter	Value
Manufacturer	LESU (via wheelfun)
Item Condition	New, Assembled and Painted
Scale	1/14
Total Length of Loader	478 mm
Width	165 mm
Height	221 mm
Net Weight	Approx. 4 KG (8.8 lbs)
Ground Clearance at Bottom of Fork Bucket	361.8 mm
Maximum Ground Clearance at Hinge Pin	373.4 mm
Maximum Operating Height	461.2 mm
Wheelbase	161 mm
Track Width	135.1 mm

Parameter	Value
Tire Outer Width	164.7 mm
Cab Ground Clearance	221.4 mm
Ground Clearance of Drive Shaft	33 mm
Maximum Unloading Height	287 mm
Number of Control Valve Ports	2+3
Maximum Pressure of Hydraulic Work Station	3 MPa
Rated Pressure of Hydraulic Work Station	2 MPa
Number of Hydraulic Pumps	1
Number of Hydraulic Cylinders	5
Hydraulic Hose Specifications (OD x ID)	2.5x1.5 mm, 2x1 mm
Body Material	Aluminum Alloy + Stainless Steel
Product Dimensions (Box)	24 x 14.4 x 12.4 inches
Item Weight (Shipping)	19.8 pounds
Recommended Age	21 years and up

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.
Manufacturer: LESU (via wheelfun)
For further assistance, visit the wheelfun Store on Amazon.