

Robbe Linde H50, No. 3349

Robbe 1/16 Linde H50 RC Forklift Instruction Manual

Model: Linde H50, No. 3349

1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your Robbe 1/16 Linde H50 RC Forklift model. It also covers the integration of various optional accessories. Please read this manual thoroughly before beginning assembly or operation to ensure safe and correct use of the model.

2. SAFETY INFORMATION

Your safety and the proper functioning of the model depend on careful adherence to these guidelines. Always operate the model responsibly.

- **Read the Manual:** Always read the entire instruction manual before assembly or operation.
- **Adult Supervision:** This product is a sophisticated model and requires adult supervision for assembly and operation, especially for younger users.
- **Small Parts:** The kit contains small parts that can be a choking hazard. Keep them out of reach of small children.
- **Battery Safety:** Use only recommended batteries and chargers. Follow all battery charging and handling instructions to prevent fire, injury, or damage. Do not short-circuit batteries.
- **Operating Environment:** Operate the RC forklift in a safe, open area, away from people, pets, and obstacles. Avoid operating near water or in wet conditions.
- **Maintenance:** Regularly inspect the model for any damage or loose parts before and after each use.

3. PACKAGE CONTENTS

Carefully unpack all components and verify them against the list below. If any parts are missing or damaged, contact customer support immediately.



Figure 3.1: Complete Robbe 1/16 Linde H50 RC Forklift kit with various optional accessories and parts laid out. This image displays the comprehensive kit, including the main Robbe Linde H50 forklift model box, the Robbe Lastenanhänger (trailer) box, the Zubehörsatz 'Transport' (accessory set), and numerous individual optional parts such as a dummy figure, traffic cones, gas barrels, and electronic components.



Figure 3.2: Opened box of the Robbe 1/16 Linde H50 RC Forklift model kit, showing internal components. The main forklift kit box is shown open, revealing the molded plastic parts for the forklift chassis and body, along with smaller components and a motor/gearbox assembly, all neatly organized within the packaging.



Figure 3.3: Opened box of the Robbe Lastenanhänger (trailer) model kit, showing internal components. This image shows the open box for the Robbe Lastenanhänger (trailer), displaying the wooden platform, plastic wheel parts, and other components required for assembling the trailer, along with its instruction sheet.



Figure 3.4: Opened box of the Robbe Zubehörset 'Transport' accessory kit, showing miniature pallets, barrels, and crates. The Zubehörset 'Transport' box is open, revealing miniature wooden pallets, metal barrels, wooden crates, and a blue lattice box, designed to be used as cargo with the forklift model.



Figure 3.5: Close-up of various small accessory packs for the Robbe RC forklift, including a dummy figure, traffic cones, and gas barrels. This image features several individually packaged accessory sets: a 'Puppe' (dummy) figure, miniature traffic cones, and 'Treibstoffass' (gas barrel) sets, along with other small parts like 'Bierkisten' (beer crates) and 'P-ONE' parts.



Figure 3.6: Electronic components for the RC forklift, including Futaba servos and a Sanyo Cadnica battery pack. Key electronic components are displayed, including two Futaba S3003 servos, a Sanwa ES-01 mini FET amplifier, and a Sanyo Cadnica 6V 600mAh Ni-Cd rechargeable battery pack, essential for the forklift's operation.



Figure 3.7: Close-up of the Sanyo Cadnica 6V 600mAh Ni-Cd battery pack and Sanwa ES-01 mini FET amplifier. A detailed view of the Sanyo Cadnica 6V 600mAh Ni-Cd battery pack and the Sanwa ES-01 mini FET amplifier, showing their labels and specifications.



Figure 3.8: Bagged plastic components for the Robbe RC forklift model. Two clear plastic bags containing various molded plastic parts for the forklift model, including gears, small structural pieces, and other assembly components.



Figure 3.9: Main body shell components and instruction manuals for the Robbe 1/16 Linde H50 RC Forklift. This image shows the main orange plastic body shell components of the forklift, along with the primary instruction manual for the Linde H50 model and additional documentation for accessories and parts.

Main Kit (Linde H50 Forklift No. 3349)

- Forklift chassis and body parts (molded plastic)
- Motor and gearbox assembly

- Wheels and tires
- Forklift mast components
- Small hardware (screws, nuts, washers)
- Decal sheet
- Instruction manual for Linde H50

Optional Accessories (as shown)

- Robbe Lastenanhänger (Trailer) No. 33497000: Wooden platform, plastic parts, wheels, instruction manual.
- Zubehörset "Transport" No. 33492000: 2 Euro pallets, 5 beer barrels, 2 wooden crates, 1 lattice box, 2 long forks.
- Puppe (Dummy) Figure No. 1634
- Traffic Cones (P-ONE)
- Treibstofffass (Gas Barrel) sets
- Electronic Components: Futaba S3003 Servos, Sanwa ES-01 Mini FET Amplifier, Sanyo Cadnica 6V 600mAh Ni-Cd Battery Pack.
- Various other small parts and accessories.

4. ASSEMBLY INSTRUCTIONS

Assembly of the Robbe Linde H50 RC Forklift and its accessories requires patience and attention to detail. Refer to the specific instruction manuals included with each kit for detailed, step-by-step guidance.

4.1 Main Forklift Assembly

1. **Chassis and Drive Train:** Begin by assembling the main chassis components. Install the motor and gearbox according to the diagrams in the Linde H50 manual. Ensure all gears mesh smoothly.
2. **Mast Assembly:** Assemble the forklift mast, ensuring all lifting mechanisms operate freely. Pay close attention to the cable routing for the lifting function.
3. **Body Panels:** Attach the main body panels to the chassis.
4. **Wheels:** Mount the wheels and tires securely.

4.2 Electronics Installation

1. **Servos:** Install the Futaba S3003 servos in their designated positions for steering and mast control. Ensure they have full range of motion without binding.
2. **Amplifier/Receiver:** Connect the Sanwa ES-01 mini FET amplifier to your RC receiver (not included) and the motor. Follow the wiring diagrams provided with your RC system.
3. **Battery:** Securely place the Sanyo Cadnica 6V 600mAh Ni-Cd battery pack in its compartment. Connect it to the amplifier/receiver system.
4. **Testing:** Before closing up the model, perform a basic function test of all electronic components using your RC transmitter.

4.3 Trailer and Accessory Assembly

- **Trailer:** Assemble the Lastenanhänger (trailer) following its dedicated manual. This typically involves assembling the wooden platform, chassis, and wheels.
- **Transport Accessories:** The Zubehörset 'Transport' items (pallets, barrels, crates) are generally pre-assembled or require minimal assembly.
- **Other Accessories:** Assemble any other optional accessories like the dummy figure or traffic cones as per their individual instructions.

5. OPERATING INSTRUCTIONS

Once assembled, your Robbe Linde H50 RC Forklift is ready for operation. Always ensure a safe operating environment.

5.1 Pre-Operation Checklist

- Ensure all screws are tightened and parts are secure.
- Check battery charge level for both the forklift and your RC transmitter.
- Verify that all control surfaces (steering, lift, tilt) respond correctly to transmitter inputs.
- Clear the operating area of any obstacles or hazards.

5.2 Basic Controls

The operation of the forklift will depend on your specific RC transmitter. Typically, controls include:

- **Throttle/Drive:** Controls forward and reverse movement.
- **Steering:** Controls left and right direction.
- **Lift/Lower:** Controls the vertical movement of the forks.
- **Tilt:** Controls the forward and backward tilt of the mast (if applicable to your model's configuration).

5.3 Handling Loads

Practice picking up and setting down loads with the forklift. Start with light, stable objects. Ensure the load is balanced on the forks before lifting and moving.

6. CARE AND MAINTENANCE

Regular maintenance will extend the life and performance of your RC forklift.

- **Cleaning:** After each use, gently clean the model with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or solvents.
- **Lubrication:** Periodically apply a small amount of appropriate lubricant to moving parts such as gears, axles, and the mast lifting mechanism.
- **Battery Care:** Always disconnect the battery after use. Store batteries in a cool, dry place. Follow manufacturer guidelines for charging and discharging Ni-Cd batteries to maintain their lifespan.

- **Inspection:** Regularly inspect all components for wear, damage, or loose connections. Tighten any loose screws. Replace damaged parts promptly.
- **Storage:** Store the model in a clean, dry environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your RC forklift, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Model does not respond to controls.	Low battery in model or transmitter; loose wiring; receiver/transmitter not bound.	Charge batteries; check all wiring connections; re-bind receiver and transmitter according to your RC system's manual.
Forklift moves slowly or inconsistently.	Low battery; motor/gearbox obstruction; excessive friction.	Charge battery; check for debris in gears; lubricate moving parts.
Forks do not lift or lower smoothly.	Obstruction in mast; cable binding; servo issue.	Inspect mast for debris; ensure cables are not tangled; check servo connection and function.
Steering is unresponsive or erratic.	Servo arm loose; steering linkage binding; servo malfunction.	Check servo arm attachment; ensure steering linkage moves freely; replace servo if necessary.

8. TECHNICAL SPECIFICATIONS

- **Model:** Robbe Linde H50 RC Forklift
- **Model Number:** No. 3349
- **Scale:** 1/16
- **Power Source:** 6V Ni-Cd Battery Pack (Sanyo Cadnica 6V 600mAh recommended)
- **Control System:** Requires 2-channel (minimum) RC transmitter and receiver (not included)
- **Servos:** Standard size servos (e.g., Futaba S3003)
- **Amplifier:** Mini FET Amplifier (e.g., Sanwa ES-01)
- **Material:** High-quality plastic, metal, and wood components.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This product is a model kit and its warranty coverage may vary depending on the retailer and specific components. Please refer to your purchase receipt and the terms and conditions provided by the seller for detailed warranty information. Generally, model kits are covered against manufacturing defects at the time of purchase.

9.2 Customer Support

For technical assistance, missing parts, or warranty claims, please contact the retailer or the manufacturer directly. Have your model number (No. 3349) and proof of purchase ready when contacting support.

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Documents - Robbe – Linde H50, No. 3349



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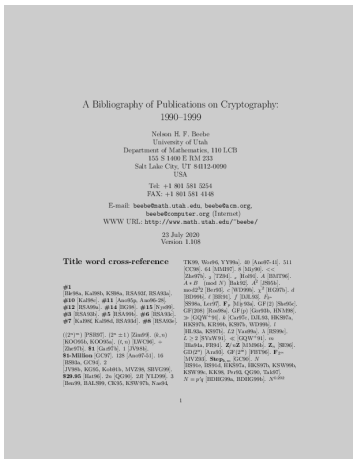
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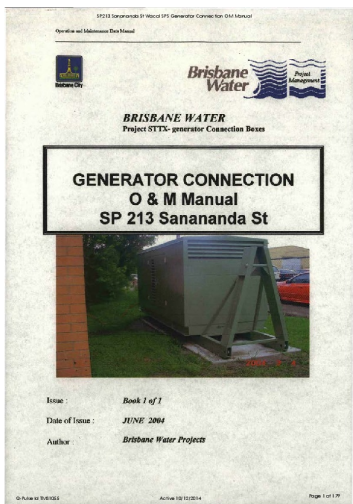
A Bibliography of Publications on Cryptography: 19901999 Nelson H. F. Beebe
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