ROGER TECHNOLOGY H30/645

ROGER H30/645 Complete 230V AC Electric Motor Kit for Sliding Gates

Model: H30/645 | Brand: ROGER TECHNOLOGY

Introduction

This instruction manual provides detailed guidance for the installation, operation, and maintenance of the ROGER H30/645 electromechanical 230V AC irreversible motor kit. This system is designed for automating sliding gates weighing up to 600 kg. Please read this manual thoroughly before beginning any installation or operation to ensure safe and correct use of the product.

The kit includes an integrated H70 series control unit, an optical encoder for precise movement control, and mechanical microswitch limit stops. Standard accessories such as the complete fixing base (KT214) and mechanical limit switch kit with supports (MC773) are also included.

Safety Information

Important Safety Instructions:

- Installation and maintenance must be performed by qualified personnel only.
- Disconnect power before performing any service or maintenance.
- Ensure all electrical connections comply with local regulations and standards.
- Keep children and pets away from the gate area during operation.
- Do not operate the gate if any part of the system is damaged or malfunctioning.
- Install the warning sign (R99/C/001) in a visible location.
- Regularly check the photocells (R90/F2ES) for proper function to prevent entrapment.

Package Contents

The ROGER H30/645 kit includes the following components:

- **1x H30/643 Electromechanical Motor:** 230V AC irreversible motor for sliding gates up to 600 kg, with integrated H70 series control unit, optical encoder, and mechanical microswitch limit stops. (Also available in 115V, though this kit is 230V).
- **1x H93/RX22A/I Receiver:** 2-channel plug-in receiver (433.92 MHz) for H70, B70, and AG/CTRL series control units.
- **1x E80/TX52R/2 Remote Control:** 2-channel fixed code remote control (433.92 MHz) with copy function.
- **2x R90/F2ES Photocell Pair:** Synchronized outdoor photocells for safety.
- **1x R92/LED230 Flashing Light:** LED flashing light (230V AC) for signaling gate operation.
- **1x R91/AN1/LR1 Antenna:** Antenna for R92 series flashing light.
- **1x R99/C/001 Warning Sign:** "Automatic Opening" warning sign.
- **1x KT214 Fixing Base:** Complete fixing base with tie rods and screws.
- **1x MC773 Limit Switch Kit:** Mechanical limit switch kit with supports.



Figure 1: Overview of the ROGER H30/645 motor kit components.

Setup and Installation

Pre-installation Checks:

- Ensure the gate moves freely and smoothly without obstruction.
- Verify the gate structure is robust enough to support the motor and withstand operation.
- Confirm availability of a 230V AC power supply at the installation site.

Installation Steps:

1. **Mount the Fixing Base (KT214):** Securely attach the KT214 fixing base to a concrete foundation next to the gate, ensuring it is level and correctly positioned relative to the gate's movement path.
2. **Install the Motor (H30/643):** Mount the H30/643 motor onto the fixing base. Ensure the motor's pinion gear aligns correctly with the gate's rack (not included, typically purchased separately).

3. **Electrical Connections:**
    - Connect the 230V AC power supply to the H70 control unit inside the motor housing.
    - Connect the R90/F2ES photocells to the control unit, ensuring proper alignment across the gate opening.
    - Connect the R92/LED230 flashing light and R91/AN1/LR1 antenna to the control unit.
    - Install the H93/RX22A/I 2-channel receiver into the designated slot on the H70 control unit.
4. **Install Limit Switches (MC773):** Attach the mechanical limit switches (MC773) to the gate rack at the desired open and closed positions. Adjust them to ensure the gate stops precisely without excessive force.
5. **Program Remote Control (E80/TX52R/2):** Follow the H70 control unit manual (not provided here, but typically included with the motor) to program the E80/TX52R/2 remote control. This usually involves a learning procedure on the control unit.
6. **Install Warning Sign (R99/C/001):** Affix the "Automatic Opening" warning sign in a prominent location near the gate.

Refer to the detailed wiring diagrams provided with the H70 control unit for specific connection points.

Operating Instructions

The ROGER H30/645 system is designed for user-friendly operation via the provided remote control.

- **Opening/Closing the Gate:** Press the programmed button on the E80/TX52R/2 remote control once to initiate the gate opening or closing cycle.
- **Stopping the Gate:** Press the same button again during operation to stop the gate at any desired position.
- **Reversing Direction:** If the gate is stopped mid-cycle, pressing the button again will reverse its direction.
- **Safety Features:** The R90/F2ES photocells will detect obstructions in the gate's path and automatically reverse or stop the gate to prevent damage or injury. The R92/LED230 flashing light will activate during gate movement to alert pedestrians and vehicles.
- **Manual Release:** In case of power failure or malfunction, locate the manual release mechanism on the motor (refer to the motor's specific manual for location and procedure) to disengage the motor and operate the gate manually.

Maintenance

Regular maintenance ensures the longevity and reliable operation of your ROGER H30/645 gate motor system.

- **Monthly:**
    - Inspect the gate's movement for any obstructions or unusual noises.
    - Clean the photocell lenses (R90/F2ES) to ensure clear visibility.
    - Test the photocells by breaking the beam during gate operation. The gate should stop or reverse.
- **Every Six Months:**
    - Check all electrical connections for tightness and signs of corrosion.
    - Lubricate the gate's moving parts (hinges, wheels, rack) as recommended by the gate manufacturer.
    - Inspect the motor's pinion gear and the gate rack for wear or damage.
- **Annually:**
    - Have a qualified technician perform a comprehensive inspection of the entire system.

- Check the functionality of the mechanical limit switches (MC773).

Always disconnect power to the motor before performing any maintenance.

Troubleshooting

Problem	Possible Cause	Solution
Gate does not respond to remote control.	Remote control battery is dead. Remote control is out of range. Receiver (H93/RX22A/I) is not powered or faulty. Remote control not programmed.	Replace remote control battery. Move closer to the gate. Check power to the control unit and receiver. Reprogram the remote control (refer to H70 control unit manual).
Gate stops or reverses unexpectedly.	Photocells (R90/F2ES) are obstructed or misaligned. Obstruction in gate path. Motor overload or mechanical issue.	Clean and realign photocells. Remove obstruction. Check gate for free movement; consult a technician if problem persists.
Flashing light (R92/LED230) does not work.	Bulb faulty or LED damaged. Wiring issue.	Check/replace bulb/LED. Inspect wiring connections to the control unit.
Gate does not open/close completely.	Limit switches (MC773) are incorrectly set. Gate movement is stiff or obstructed.	Adjust the mechanical limit switches. Check gate for smooth operation and clear any obstructions.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact ROGER TECHNOLOGY customer support or a qualified technician.

Technical Specifications

Feature	Specification
Model	H30/645 (Motor H30/643)
Power Supply	230 V AC
Gate Type	Sliding Gate
Max Gate Weight	600 kg
Motor Type	Electromechanical, Irreversible
Control Unit	Integrated H70 Series
Encoder	Optical
Limit Switches	Mechanical Microswitch

Feature	Specification
Remote Control Frequency	433.92 MHz
ASIN	B01MQH4H6R
Batteries Required	No (for main unit)
Batteries Included	No (for main unit)

Warranty Information

ROGER TECHNOLOGY products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official ROGER TECHNOLOGY website. Keep your proof of purchase for any warranty claims.
Spare parts availability information is not available from the manufacturer at this time.

Customer Support

For technical assistance, troubleshooting, or inquiries regarding your ROGER H30/645 motor kit, please contact ROGER TECHNOLOGY customer support.

- **Website:** www.rogertechnology.com (Please check for local contact information)
- **Email:** Refer to the official website for contact email.
- **Phone:** Refer to the official website for contact phone numbers.

When contacting support, please have your product model (H30/645) and ASIN (B01MQH4H6R) ready.

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