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› Dieffematic U7090 A3000 Swing Gate Opener Kit Instruction Manual

## Dieffematic U7090 A3000

# Dieffematic U7090 A3000 Swing Gate Opener Kit

**Model:** U7090 A3000 | **Brand:** Dieffematic  
Instruction Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Dieffematic U7090 A3000 Swing Gate Opener Kit. This system is designed for automating swing gates up to 3 meters in length per leaf, operating on a 220V/230V power supply. Please read this manual carefully before beginning installation or operation to ensure safe and correct use of the product.

## 2. SAFETY INFORMATION

**Important:** Failure to follow these safety instructions may result in serious injury or damage to property. Keep this manual in a safe place for future reference.

- Installation must be performed by qualified personnel in compliance with local electrical and safety regulations.
- Disconnect power to the gate opener before performing any maintenance or repair work.
- Ensure all safety devices (e.g., photocells, safety edges) are correctly installed and functioning.
- Do not allow children to play near the gate or with the remote control.
- Keep hands and clothing clear of the gate's moving parts.
- In case of malfunction, do not attempt to repair the unit yourself. Contact qualified service personnel.

## 3. PACKAGE CONTENTS

Verify that all components listed below are present in your kit:

- 2 x Dieffematic U7090 A3000 Gate Operators
- 1 x Control Panel
- 2 x Remote Controls
- 1 x Set of Mounting Brackets and Hardware

- 1 x Pair of Safety Photocells
- 1 x Antenna
- 1 x Instruction Manual (this document)



Image 1: Overview of the Dieffematic U7090 A3000 Swing Gate Opener Kit components. This image displays the two gate operators, control panel, remote controls, and safety photocells included in the package.

## 4. SETUP AND INSTALLATION

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This section outlines the general steps for installing the Dieffematic U7090 A3000 gate opener. Refer to detailed diagrams and specific measurements provided in the supplementary installation guide (if applicable) for precise mounting.

### 4.1 Mounting the Operators

1. **Prepare the Gate:** Ensure the gate operates smoothly manually and that hinges are in good condition.
2. **Attach Rear Brackets:** Secure the rear mounting brackets to the gate posts using appropriate fasteners. Ensure they are level and at the correct height for optimal leverage.
3. **Attach Operators:** Mount the gate operators to the rear brackets.
4. **Attach Front Brackets:** Extend the operator arm and mark the position for the front mounting bracket on the gate leaf. Secure the front bracket.
5. **Connect Operators:** Attach the operator arm to the front bracket.



Image 2: Illustrative diagram showing the typical mounting positions for the Dieffematic U7090 A3000 gate operators on a swing gate post and leaf. This image helps visualize the attachment points for the rear and front brackets.

## 4.2 Electrical Connections

**Warning:** Electrical work should only be performed by a qualified electrician.

- **Power Supply:** Connect the control panel to a dedicated 220V/230V AC power supply, ensuring proper grounding.
- **Motor Connections:** Connect the two gate operators to the control panel according to the wiring diagram provided with the control panel.
- **Safety Devices:** Wire the safety photocells and any other safety accessories (e.g., flashing light, emergency stop) to the designated terminals on the control panel.
- **Antenna:** Connect the antenna to the control panel for optimal remote control range.

## 4.3 Initial Configuration and Remote Pairing

1. **Power On:** Once all connections are secure, switch on the main power supply to the control panel.
2. **Limit Switch Adjustment:** Follow the control panel's specific instructions to set the open and closed limit positions for each gate leaf. This typically involves manually moving the gate to the desired positions and saving them.
3. **Remote Control Pairing:** Press the programming button on the control panel (refer to control panel manual for exact location). While the indicator light is active, press a button on your remote control. The light will confirm successful pairing. Repeat for all remote controls.
4. **Test Operation:** Test the gate operation using the remote control, ensuring smooth movement and correct stopping at the set limits. Verify that safety photocells detect obstructions and stop the gate.

## 5. OPERATING INSTRUCTIONS

The Dieffematic U7090 A3000 gate opener is designed for simple and reliable operation.

### 5.1 Using the Remote Control

- **Open/Close:** Press the programmed button on your remote control once to open the gate. Press it again while

the gate is moving to stop it. Pressing it a third time will reverse its direction (if configured).

- **Pedestrian Mode (if configured):** If your control panel supports pedestrian mode, a separate button on the remote may open only one gate leaf for pedestrian access. Consult your control panel manual for specific setup.



Image 3: Example of a Dieffematic remote control for operating the gate opener. This image shows the typical button layout for opening, closing, and potentially activating pedestrian mode.

## 5.2 Manual Release

In case of power failure or malfunction, the gate can be operated manually. Locate the manual release mechanism on each operator (usually a key-operated lever). Insert the key, turn it, and disengage the motor to allow manual movement of the gate leaves. Remember to re-engage the motor once power is restored or the issue is resolved.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your gate opener system.

- **Monthly:**
  - Check for obstructions in the gate's path.
  - Test safety photocells by breaking the beam while the gate is closing. The gate should stop or reverse.
  - Inspect mounting hardware for tightness.
- **Every 6 Months:**
  - Clean the gate operators and control panel housing.
  - Lubricate gate hinges and any moving parts of the operator arm with appropriate grease or spray.
  - Inspect electrical wiring for signs of wear or damage.
- **Annually:**
  - Have a qualified technician perform a thorough inspection and service.

## 7. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions.

Problem	Possible Cause	Solution
Gate does not respond to remote control.	Remote battery is dead. Remote is out of range. Remote is not paired. Power supply to control panel is off.	Replace remote battery. Move closer to the gate. Re-pair the remote control (Section 4.3). Check main power supply and circuit breaker.
Gate opens but does not close, or vice versa.	Safety photocells obstructed or misaligned. Limit switches incorrectly set.	Clear obstruction, clean photocell lenses, or realign. Re-adjust limit switches (Section 4.3).
Gate moves slowly or with difficulty.	Gate hinges stiff or damaged. Operator arm needs lubrication. Motor issue.	Inspect and repair gate hinges. Lubricate operator arm (Section 6). Contact qualified service personnel.

If the problem persists after attempting these solutions, please contact Dieffematic customer support or a qualified technician.

## 8. SPECIFICATIONS

<b>Brand</b>	Dieffematic
<b>Model</b>	U7090 A3000 (Internal Model: 253627598241)
<b>ASIN</b>	B07JQDML6N
<b>Power Supply</b>	220V / 230V AC
<b>Max Gate Leaf Length</b>	3 meters
<b>Product Type</b>	Swing Gate Opener Kit
<b>First Available Date</b>	24 July 2019

## 9. WARRANTY AND SUPPORT

Dieffematic products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or spare parts, please refer to the warranty card included with your product or visit the official Dieffematic website. Please have your product model (U7090 A3000) and ASIN (B07JQDML6N) ready when contacting support.

**Online Support:** [www.dieffematic.com/support](http://www.dieffematic.com/support) (This is a placeholder URL, replace with actual support link if available)