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## Dieffematic FAAC C721 (Model 105083)

# Dieffematic FAAC C721 Sliding Gate Automation Kit

User Manual - Model 105083

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Dieffematic FAAC C721 24V Cyclo sliding gate automation kit. Please read this manual carefully before beginning any installation or operation procedures to ensure safe and efficient use of the product. This kit is designed for residential sliding gates weighing up to 800 kg.

## 2. SAFETY INFORMATION

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Always adhere to local regulations and safety standards during installation and operation. Failure to follow these instructions may result in serious injury or damage to property.

- **Electrical Safety:** Disconnect power before performing any maintenance or installation. All electrical connections must be performed by a qualified electrician.
- **Mechanical Safety:** Ensure the gate moves freely and is properly balanced before installing the automation system. Keep hands, feet, and clothing clear of the gate's moving parts.
- **Children and Pets:** Do not allow children or pets to play near the gate or its operating controls.
- **Emergency Stop:** Familiarize yourself with the manual release mechanism for emergency situations.
- **Photocells:** Always install and properly align safety photocells to prevent the gate from closing on obstructions.

## 3. PACKAGE CONTENTS

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Verify that all components listed below are present and undamaged upon unpacking the kit.



Image: Overview of the Dieffematic FAAC C721 Sliding Gate Automation Kit, showing the main motor unit, control box, mounting plate, photocells, remote control, and key switch.

- FAAC C721 24V Motor Unit
- Control Board (integrated or separate, depending on model variant)
- Mounting Plate with Anchors
- Pair of Safety Photocells
- Remote Control Transmitters
- Key Switch
- Receiver Module
- Installation Accessories (screws, brackets, etc.)
- Instruction Manual (this document)

## 4. SETUP AND INSTALLATION

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Installation should only be performed by qualified personnel. Ensure all safety precautions are observed.

### 4.1 Site Preparation

1. Ensure the gate track is clean and free of obstructions.
2. Verify the gate slides smoothly and is level.
3. Prepare a concrete foundation for the motor unit's mounting plate, ensuring it is stable and level.

## 4.2 Motor Unit Installation

1. Secure the mounting plate to the prepared foundation using the provided anchors.
2. Mount the FAAC C721 motor unit onto the mounting plate, ensuring it is correctly aligned with the gate's rack.
3. Install the gate rack onto the gate, ensuring proper meshing with the motor's pinion gear. Leave a small gap (approx. 1-2mm) between the rack and the pinion to allow for thermal expansion.

## 4.3 Electrical Connections

All electrical work must comply with local electrical codes.

1. Connect the main power supply (24V DC) to the control board terminals as indicated in the wiring diagram (refer to the detailed wiring diagram provided in the separate technical manual).
2. Connect the motor wires to the appropriate terminals.
3. Wire the safety photocells, ensuring they are correctly aligned across the gate opening.
4. Connect the key switch and any other desired accessories (e.g., flashing light, additional remote controls).

## 4.4 Programming and Limit Switches

1. Power on the system.
2. Follow the control board's specific instructions for programming the gate's opening and closing limits. The FAAC C721 typically uses an encoder for precise position control.
3. Program the remote controls according to the control board's pairing procedure.
4. Test the safety features, including the photocells and obstacle detection.

# 5. OPERATING INSTRUCTIONS

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## 5.1 Normal Operation

- **Opening/Closing:** Press the designated button on your remote control or turn the key in the key switch to activate the gate. A single press typically cycles the gate (open-stop-close-stop).
- **Stopping:** Pressing the remote control button again during gate movement will stop the gate.
- **Safety Features:** If an obstruction is detected by the photocells or the motor's obstacle detection system, the gate will stop or reverse its movement.

## 5.2 Manual Release

In case of power failure or malfunction, the gate can be operated manually.

- Locate the manual release mechanism on the motor unit (usually covered by a cap or panel).
- Insert the provided key or lever into the mechanism and turn it to disengage the motor.
- The gate can now be moved by hand.
- To re-engage the motor, reverse the manual release procedure. Ensure the gate is fully closed or open before re-engaging.

# 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your gate automation system. Disconnect power before any maintenance.

- **Monthly:** Check the gate's movement for smoothness and ensure there are no obstructions in the track. Clean the photocell lenses with a soft, dry cloth.
- **Every 6 Months:** Inspect the gate rack for wear or damage. Check all electrical connections for tightness and signs of corrosion. Lubricate moving parts of the gate (hinges, wheels) if applicable, but avoid lubricating the motor's pinion gear or

the gate rack directly unless specified by FAAC.

- **Annually:** Have a qualified technician perform a comprehensive inspection of the entire system, including motor performance, safety features, and electrical integrity.

## 7. TROUBLESHOOTING

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Before contacting technical support, review the following common issues and their solutions.

Problem	Possible Cause	Solution
Gate does not move	No power supply Photocells obstructed Motor disengaged (manual mode)	Check power connection and circuit breaker Clear obstruction, clean photocells Re-engage motor (refer to manual release section)
Gate stops unexpectedly	Obstruction detected Photocells misaligned Motor overheating	Remove obstruction Align photocells, clean lenses Allow motor to cool down, check for excessive friction in gate movement
Remote control not working	Dead battery Remote not programmed Receiver issue	Replace battery Reprogram remote control (refer to programming section) Check receiver connections, ensure no interference
Gate opens but does not close	Photocells obstructed or faulty Safety edge activated	Check and clear photocells, test functionality Inspect safety edges for damage or activation

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

## 8. SPECIFICATIONS

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Feature	Specification
Brand	Dieffematic (FAAC)
Model Name	FAAC C721 Cyclo
Model Number	105083
Max Gate Weight	800 kg
Motor Voltage	24V DC
Application	Residential Sliding Gates
ASIN	B07JR3FBTJ
First Available Date	February 26, 2018

## 9. WARRANTY AND SUPPORT

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This product is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty

card included with your product for specific terms and conditions, including warranty period and claim procedures.

## Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your authorized Dieffematic dealer or customer service. Keep your purchase receipt and product model number handy when contacting support.

**Dieffematic Contact Information:** Please refer to the contact details provided on the product packaging or the official Dieffematic website for the most up-to-date support information.