

## FAAC 400 CBAC

# FAAC CBAC Swing Gate Operator System Instruction Manual

Model: 400 CBAC Operator, 455D Control Panel, EMX-IRB-RET Photo Eye

## 1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the FAAC CBAC Swing Gate Operator System. This system includes the FAAC 400 CBAC Standard Operator, the FAAC 455D Control Panel, and the EMX-IRB-RET Retro Reflective Photo Eye. Proper installation and regular maintenance are crucial for the safe and efficient functioning of your gate system. Please read this manual thoroughly before proceeding with any installation or operation.

## 2. PRODUCT COMPONENTS

The FAAC CBAC Swing Gate Operator System comprises several key components designed for robust and reliable gate automation. The primary components included are:

- **FAAC 400 CBAC Standard Operator:** A hydraulic swing gate operator designed for versatility in various applications.
- **FAAC 455D Control Panel (Fiberglass):** The central unit for managing gate operations and safety features.
- **EMX-IRB-RET Retro Reflective Photo Eye:** An essential safety device that detects obstructions in the gate's path. Includes reflector and mounting bracket with hardware.



This image displays the complete FAAC swing gate operator system. At the top is the FAAC 455D Control Panel, a gray rectangular box with the 'FAAC' logo. Below it are two FAAC 400 CBAC hydraulic swing gate operators, long silver cylindrical units designed to move the gate. In the bottom left, the EMX-IRB-RET Retro Reflective Photo Eye is shown, a black sensor unit accompanied by a circular reflector and various mounting brackets and washers.

### 3. SAFETY INFORMATION

**WARNING:** Improper installation or use of this gate operator can cause serious injury or death. Always follow all safety precautions and instructions.

- **Professional Installation Recommended:** Due to the complexity and safety requirements, installation should be performed by qualified personnel.
- **Electrical Hazards:** Disconnect all power before servicing or installing. All electrical wiring must comply

with local codes and regulations.

- **Pinch Points:** Keep hands, feet, and clothing clear of the gate and operator mechanisms during operation.
- **Entrapment Protection:** The EMX-IRB-RET Photo Eye is a critical safety device. Ensure it is correctly installed and functioning to prevent entrapment.
- **Emergency Release:** Familiarize yourself with the manual release mechanism of the operator for emergency situations.
- **Children and Pets:** Never allow children or pets to play near the gate area or operate the controls.

## 4. SETUP AND INSTALLATION

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Installation of the FAAC CBAC Swing Gate Operator System requires careful planning and adherence to safety standards. It is strongly recommended that installation be performed by a certified FAAC technician or a qualified gate automation professional.

### 4.1. Pre-Installation Checks

- Ensure the gate structure is sound and moves freely without binding.
- Verify that the gate is properly balanced and hinged.
- Confirm availability of appropriate power supply at the installation site.

### 4.2. Operator Mounting (FAAC 400 CBAC)

Mount the FAAC 400 CBAC operator securely to the gate post and gate leaf according to the specific dimensions and angles required for your gate type. Ensure the operator is level and aligned to prevent undue stress on the gate and operator.

### 4.3. Control Panel Installation (FAAC 455D)

Install the FAAC 455D Control Panel in a secure, weather-protected location, typically near the gate. All electrical connections to the operator, safety devices, and power supply must be made by a qualified electrician, following the wiring diagrams provided with the control panel.

### 4.4. Photo Eye Installation (EMX-IRB-RET)

Mount the EMX-IRB-RET Retro Reflective Photo Eye and its reflector on opposite sides of the gate opening, ensuring they are aligned and at an appropriate height (typically 6-24 inches from the ground) to detect obstructions. Connect the photo eye to the 455D control panel as per the wiring instructions.

### 4.5. Initial Power-Up and Configuration

After all components are installed and wired, apply power to the system. Refer to the FAAC 455D Control Panel manual for detailed instructions on initial programming, setting limits, and configuring operational parameters.

## 5. OPERATING INSTRUCTIONS

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Once the system is properly installed and configured, operating the FAAC CBAC Swing Gate Operator is straightforward.

### 5.1. Basic Operation

- **Open/Close:** Use your remote control, keypad, or other access control device to send a command to the 455D control panel. The gate will open or close based on its current state.

- **Stop:** A second command during gate movement will typically stop the gate.
- **Safety Reversal:** If the EMX-IRB-RET Photo Eye detects an obstruction during closing, the gate will stop and reverse to the fully open position.

## 5.2. Manual Release

In case of power failure or system malfunction, the FAAC 400 CBAC operator can be manually disengaged. Locate the manual release mechanism on the operator (refer to the operator-specific manual for exact location and procedure) and follow the instructions to unlock the gate, allowing it to be moved by hand.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable performance of your FAAC gate operator system. Perform these checks periodically:

- **Visual Inspection:** Regularly inspect the gate, hinges, and operator for signs of wear, damage, or corrosion.
- **Clean Photo Eye:** Keep the lenses of the EMX-IRB-RET Photo Eye and its reflector clean and free from dirt, dust, or spiderwebs to ensure proper function.
- **Check Fasteners:** Ensure all mounting bolts and fasteners for the operator, control panel, and photo eye are tight.
- **Gate Movement:** Periodically check that the gate moves freely and smoothly without the operator engaged. Lubricate hinges if necessary.
- **Professional Service:** It is recommended to have the system inspected and serviced by a qualified technician annually.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your FAAC gate operator system. For complex problems, contact a qualified technician.

### 7.1. Gate Not Responding

- **Check Power:** Ensure the control panel has power. Check circuit breakers or fuses.
- **Remote Control:** Verify remote control batteries are functional and the remote is programmed correctly.
- **Safety Devices:** Ensure the EMX-IRB-RET Photo Eye is not obstructed and its indicator lights (if present) show proper alignment. A misaligned or obstructed photo eye will prevent gate closure.

### 7.2. Gate Stops Mid-Cycle or Reverses Unexpectedly

- **Obstruction:** Check for any physical obstructions in the gate's path.
- **Photo Eye:** Clean and realign the EMX-IRB-RET Photo Eye.
- **Force Settings:** If the gate encounters resistance, the force settings on the 455D control panel might need adjustment by a technician.

### 7.3. Gate Moves Slowly or Unevenly

- **Mechanical Issues:** Inspect gate hinges and wheels for binding or damage.
- **Hydraulic Fluid:** For hydraulic operators like the 400 CBAC, low hydraulic fluid or issues with the hydraulic system may be present. This requires professional service.

## 8. SPECIFICATIONS

Key specifications for the FAAC CBAC Swing Gate Operator System components:

Specification	Value
Manufacturer	FAAC
Operator Model	400 CBAC
Control Panel Model	455D (Fiberglass)
Photo Eye Model	EMX-IRB-RET Retro Reflective
Batteries Included?	Yes
Batteries Required?	Yes
ASIN	B079236J8C
Date First Available	December 20, 2017

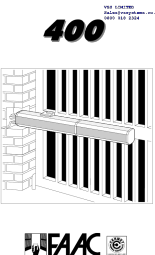

## 9. WARRANTY AND SUPPORT

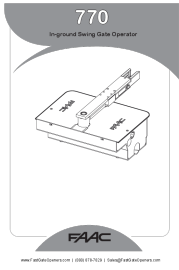



For specific warranty information regarding your FAAC CBAC Swing Gate Operator System, please refer to the documentation provided at the time of purchase or contact your authorized FAAC dealer or installer.

Warranty terms typically cover manufacturing defects for a specified period.

For technical support, troubleshooting assistance beyond this manual, or to schedule professional service, please contact your FAAC product supplier or a certified FAAC service center. Always provide your product model numbers and purchase date when seeking support.

### Related Documents - 400 CBAC

	<p><a href="#">FAAC 400 Series Swing Gate Automation System: Installation and User Manual</a></p> <p>Comprehensive installation, safety, operation, and maintenance guide for the FAAC 400 series hydraulic automation systems designed for swing gates. Covers technical specifications, dimensions, installation procedures, safety instructions, manual operation, and troubleshooting.</p>
	<p><a href="#">FAAC S418 Electromechanical Swing Gate Operator Installation and Operation Manual</a></p> <p>Comprehensive guide for the FAAC S418 Electromechanical Swing Gate Operator, covering installation, operation, maintenance, safety precautions, and technical specifications. Includes details on the E024U control board and accessories.</p>

 <p>770 In-ground Swing Gate Operator</p> <p>FAAC</p> <p>www.faac.com   1-800-451-7623   faac@faac.com</p>	<p><a href="#">FAAC 770 In-Ground Swing Gate Operator: Installation, Control Board, and Maintenance Manual</a></p> <p>This manual provides comprehensive instructions for the FAAC 770 in-ground swing gate operator, covering installation, safety guidelines, the E024U control board, programming, maintenance, spare parts, and warranty. It details technical specifications and operational logic for automated vehicular swing gates.</p>
 <p>402 Hydraulic Swing Gate Operator</p> <p>FAAC</p> <p>www.faac.com   1-800-451-7623   faac@faac.com</p>	<p><a href="#">FAAC 402 Hydraulic Swing Gate Operator - Installation, Operation, and Safety Manual</a></p> <p>Comprehensive guide for the FAAC 402 Hydraulic Swing Gate Operator, covering installation, operation, safety precautions, programming the 455D control board, maintenance, and troubleshooting. Includes technical specifications and spare parts.</p>
 <p>S418 Swing Gate Operator</p> <p>FAAC</p> <p>www.faac.com   1-800-451-7623   faac@faac.com</p>	<p><a href="#">FAAC S418 Swing Gate Operator - Installation and Operation Manual</a></p> <p>Comprehensive guide for the FAAC S418 electromechanical swing gate operator, covering installation, technical specifications, safety precautions, operation, maintenance, and control board details.</p>
 <p>390 Articulated Arm Swing Gate Operator</p> <p>FAAC</p> <p>www.faac.com   1-800-451-7623   faac@faac.com</p>	<p><a href="#">FAAC 390 Articulated Arm Swing Gate Operator Manual</a></p> <p>Comprehensive installation, operation, and safety manual for the FAAC 390 Articulated Arm Swing Gate Operator. Includes technical specifications, electrical diagrams, programming details, and maintenance guidelines.</p>