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FAAC FAAC-412-DX-SWING-GATE-OPERATOR-ONLY

FAAC 412 DX Swing Gate Opener User Manual

Model: FAAC-412-DX-SWING-GATE-OPERATOR-ONLY | Brand: FAAC



INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the FAAC 412 DX Swing Gate Opener. The FAAC 412 is a self-contained compact operator designed specifically for automating vehicular swing leaf gates. It features an electric motor that drives a worm screw housed in an aluminum casing. The system incorporates a mechanical locking mechanism, eliminating the need for an external electric lock. Please note that positive stops are required for proper operation. This operator is intended solely for its specified purpose of automating swing gates and should not be used for any other application.



Image: The FAAC 412 DX Swing Gate Opener, a compact linear actuator designed for swing gates. It features a black motor housing on one end and a silver-colored linear shaft extending from it.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your FAAC 412 DX gate opener. It is recommended that installation be performed by qualified personnel.

1. Safety Precautions

- Ensure all power is disconnected before beginning any installation or maintenance work.
- Wear appropriate personal protective equipment (PPE).
- Verify that the gate structure is sound and capable of supporting the operator's weight and forces.
- Install all necessary safety devices, such as photocells and safety edges, as per local regulations.

2. Mounting the Operator

1. Determine the optimal mounting position on the gate post and gate leaf to achieve the desired opening angle. Refer to the detailed mounting diagrams provided in the full installation manual (not included here).
2. Securely attach the rear mounting bracket to the gate post using appropriate fasteners.
3. Attach the front mounting bracket to the gate leaf.
4. Connect the FAAC 412 DX operator to both mounting brackets. Ensure the operator is level and aligned correctly.

3. Electrical Connections

- Connect the 115V AC power supply to the control unit, ensuring proper grounding.
- Connect the motor cables from the FAAC 412 DX operator to the designated terminals on the control unit.
- Wire all safety devices (photocells, emergency stop buttons) and accessories (keypads, remote receivers) to the control unit as per the wiring diagram.
- All electrical work must comply with local electrical codes and regulations.

4. Limit Switch Adjustment

The FAAC 412 DX uses internal mechanical stops or external positive stops to define the open and closed positions of the gate. Ensure these stops are securely installed and correctly positioned to prevent over-travel and damage to the gate or operator.

OPERATING INSTRUCTIONS

Once installed and configured, the FAAC 412 DX Swing Gate Opener provides reliable automation for your gate.

1. Basic Operation

- To open the gate: Press the designated button on your remote control, keypad, or access control system. The gate will begin to open.
- To close the gate: Press the designated button again. The gate will begin to close.
- Stopping the gate: During movement, pressing the button again will typically stop the gate. A subsequent press will reverse its direction.

2. Safety Features

The system is designed with safety in mind. Ensure all safety devices are active and functioning correctly:

- **Photocells:** If the beam is interrupted while the gate is closing, the gate will stop and reverse to the open position.
- **Obstacle Detection:** The control unit may have an adjustable sensitivity for detecting obstacles. If an obstacle is encountered, the gate will stop and reverse.
- **Manual Release:** In case of power failure or malfunction, the operator can be manually disengaged to allow the gate to be opened or closed by hand. Refer to the full manual for the specific release mechanism.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your FAAC 412 DX gate opener.

Recommended Maintenance Schedule:

- **Monthly:**

- Inspect the gate's hinges and moving parts for wear or damage.
- Check the security of all mounting bolts and connections.
- Clean any debris from the operator's casing and around the gate area.

- **Every 6 Months:**

- Test all safety devices (photocells, safety edges) for proper function.
- Lubricate the gate hinges and any other moving parts of the gate (not the operator's internal mechanism).
- Check the electrical connections for corrosion or loose wiring.

- **Annually:**

- Have a qualified technician perform a thorough inspection of the entire system, including the operator's internal components if accessible.

Note: Always disconnect power to the unit before performing any maintenance.

TROUBLESHOOTING

This section addresses common issues you might encounter with your FAAC 412 DX gate opener. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not respond to commands.	No power; remote control battery dead; safety device activated; control unit fault.	Check power supply; replace remote battery; check photocells for obstruction; consult full manual or technician.
Gate opens but does not close.	Photocells obstructed or misaligned; safety edge activated.	Clear obstruction from photocells; clean photocell lenses; realign photocells; check safety edge wiring.
Gate stops unexpectedly during movement.	Obstacle detected; motor overheating; mechanical binding.	Remove obstacle; allow motor to cool; check gate for free movement; lubricate hinges.
Unusual noises from the operator.	Lack of lubrication in gate hinges; worn internal components; loose mounting.	Lubricate gate hinges; tighten mounting bolts; contact technician for internal inspection.

SPECIFICATIONS

Key technical specifications for the FAAC 412 DX Swing Gate Opener:

- **Product Dimensions:** 39.37 x 3.54 x 7.68 inches
- **Item Weight:** 45 pounds
- **ASIN:** B074CH2DPX
- **Item Model Number:** FAAC-412-DX-SWING-GATE-OPERATOR-ONLY
- **Power Supply:** 115V AC (as indicated in product title)
- **Manufacturer:** FAAC
- **First Available Date:** August 31, 2017

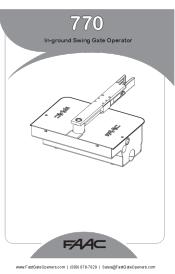
WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official FAAC documentation included with your product or visit the official FAAC website. It is recommended to register your product to ensure access to full warranty benefits and support services.

For service or parts, please contact an authorized FAAC dealer or service center.

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Related Documents - FAAC-412-DX-SWING-GATE-OPERATOR-ONLY

	<p><u>FAAC 770 In-Ground Swing Gate Operator: Installation, Control Board, and Maintenance Manual</u></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><u>FAAC S418 Electromechanical Swing Gate Operator Installation and Operation Manual</u></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><u>FAAC S418 Swing Gate Operator - Installation and Operation Manual</u></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>402 Hydraulic Swing Gate Operator</p> <p>www.faacdatasheets.com 0800 173 703 faac@faacdatasheets.com</p> <p>FAAC</p>	<p>FAAC 402 Hydraulic Swing Gate Operator - Installation, Operation, and Safety Manual</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>390 Articulated Arm Swing Gate Operator</p> <p>FAAC International AG Feldstrasse 10 8401 Winterthur Switzerland Phone: +41 1 820 20 20 Fax: +41 1 820 20 21 E-mail: faac@faac.com</p> <p>FAAC</p>	<p>FAAC 390 Articulated Arm Swing Gate Operator Manual</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>
 <p>390 24V Articulated Arm Swing Gate Operator</p> <p>FAAC International AG Feldstrasse 10 8401 Winterthur Switzerland Phone: +41 1 820 20 20 Fax: +41 1 820 20 21 E-mail: faac@faac.com</p> <p>FAAC</p>	<p>FAAC 390 24V Articulated Arm Swing Gate Operator Installation and Maintenance Manual</p> <p>Comprehensive installation, operation, and maintenance manual for the FAAC 390 24V Articulated Arm Swing Gate Operator, including safety instructions, technical specifications, and troubleshooting for the E024U control board.</p>