

FAAC 412 SX

FAAC 412 SX Swing Gate Opener Instruction Manual

Model: FAAC 412 SX

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of the FAAC 412 SX Swing Gate Opener. This unit is designed specifically for single leaf, left-hinged gates. Please read this manual thoroughly before beginning any installation or operation procedures.

The FAAC 412 SX is a reliable electromechanical operator for swing gates, offering automated access control and enhanced security. Proper installation and regular maintenance are crucial for optimal performance and longevity.



Figure 1: The FAAC 412 SX Swing Gate Opener. This image shows the main body of the gate opener, which is a long, cylindrical silver unit with a black motor housing at one end, from which a power cable extends.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage. Keep this manual for future reference.

- Installation and repair must be performed by qualified personnel only.
- Ensure all power is disconnected before performing any maintenance or installation procedures.
- Do not allow children to play near the gate or with the gate opener controls.
- Keep hands and clothing clear of the gate and moving parts during operation.
- Regularly inspect the gate opener and gate for signs of wear, damage, or misalignment.
- Ensure safety devices (e.g., photocells, safety edges) are correctly installed and functioning.
- This product is designed for gate automation; do not use it for any other purpose.

3. SETUP AND INSTALLATION

The FAAC 412 SX is designed for screw-in installation. This section outlines general steps. Refer to the detailed installation diagrams provided with your product packaging for precise measurements and mounting points.

3.1 Pre-Installation Checks

- Verify the gate is structurally sound, moves freely, and is properly balanced.
- Confirm the gate is a single leaf, left-hinged type.
- Ensure adequate space for the opener's movement and access for maintenance.
- Confirm power supply (DC) is available at the installation site.

3.2 Mounting the Opener

1. Attach the rear bracket to the gate post using appropriate fasteners. Ensure it is level and securely mounted.
2. Mount the front bracket to the gate frame. The position of this bracket is critical for correct gate travel and force distribution.
3. Connect the FAAC 412 SX operator to both the rear and front brackets. Ensure the operator is aligned correctly and moves smoothly without binding.
4. Secure all mounting points.

3.3 Electrical Connections

- Connect the operator's power cable to the control unit according to the wiring diagram provided with the control unit (sold separately).
- Connect all safety devices (photocells, emergency stop buttons) to the control unit.
- Ensure all electrical connections are secure and insulated to prevent short circuits and electrical hazards.
- Power source is DC.

4. OPERATING INSTRUCTIONS

Once installed and configured, the FAAC 412 SX Swing Gate Opener operates via its connected control unit and remote access devices.

4.1 Initial Power-Up and Testing

1. With all connections verified, apply power to the control unit.
2. Follow the control unit's manual for initial programming, including setting gate limits and operating parameters.
3. Test the gate operation using a remote control or wall button. Observe the gate's movement for any obstructions or unusual noises.
4. Verify that all safety devices (e.g., photocells) function correctly by interrupting their beam during gate movement. The gate should stop or reverse.

4.2 Manual Release

In case of power failure or malfunction, the gate opener can be manually disengaged to allow manual gate operation.

- Locate the manual release mechanism on the operator (refer to the control unit's manual or product diagrams).
- Insert the provided key or tool and turn it to disengage the motor.
- The gate can now be opened and closed by hand.
- To re-engage, reverse the manual release procedure.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your FAAC 412 SX Swing Gate Opener.

5.1 Monthly Checks

- Inspect the gate for smooth operation, ensuring hinges are lubricated and free of rust.
- Check all mounting bolts and fasteners for tightness.
- Clean photocell lenses to ensure clear visibility.
- Test safety devices (photocells, safety edges) for proper function.

5.2 Annual Service

- Have a qualified technician inspect the motor, gearbox, and electrical connections.
- Check for wear on moving parts and lubricate as necessary.
- Verify the gate's balance and alignment.

6. TROUBLESHOOTING

This section addresses common issues. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not move.	No power; manual release engaged; safety device triggered; remote battery low.	Check power supply; disengage manual release; clear safety device path; replace remote battery.
Gate stops unexpectedly.	Obstruction detected; safety device triggered; motor overheating.	Remove obstruction; clear safety device path; allow motor to cool.
Gate opens/closes partially.	Limit settings incorrect; mechanical obstruction.	Re-program limit settings (refer to control unit manual); check for physical obstructions.
Unusual noises during operation.	Lack of lubrication; worn components; misalignment.	Lubricate hinges and moving parts; inspect for worn components; check gate and operator alignment.

7. SPECIFICATIONS

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

- **Model:** FAAC 412 SX

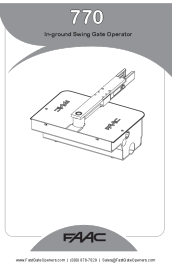


- **Part Number:** FAAC-412-SX-SWING-GATE-OPERATOR-ONLY
- **Manufacturer:** FAAC
- **Power Source:** DC
- **Installation Method:** Screw-In
- **Item Weight:** 45 pounds
- **Product Dimensions:** 39.37 x 3.54 x 7.68 inches
- **Intended Use:** Single Leaf Left Hinged Gate
- **Batteries Required:** No
- **Item Package Quantity:** 1




8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your authorized FAAC dealer. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or to purchase replacement parts, please contact FAAC customer service or your local distributor. Contact details can typically be found on the manufacturer's official website.

Related Documents - 412 SX

	<p>FAAC 770 In-Ground Swing Gate Operator: Installation, Control Board, and Maintenance Manual</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>FAAC S418 Electromechanical Swing Gate Operator Installation and Operation Manual</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>FAAC S418 Swing Gate Operator - Installation and Operation Manual</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>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</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>
 <p>402 Hydraulic Swing Gate Operator</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>