FAAC 412-DX

FAAC 412-DX Gate Motor (115 Volt) Instruction Manual

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of the FAAC 412-DX Gate Motor. The FAAC 412-DX is a 115 Volt gate operator designed for light residential use on single right-hinged gates. It is engineered for reliability and safety, ensuring efficient operation for gates up to 500 lbs and 14 feet in length.

2. Safety Information

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- Ensure all electrical connections are performed by a qualified electrician and comply with local electrical codes.
- Do not allow children to play near the gate operator or gate.
- Keep the gate area clear of obstructions during operation.
- Never attempt to repair or modify the gate operator yourself. Contact qualified service personnel.
- The FAAC 412-DX is UL 325 compliant. Ensure all components and installation practices adhere to UL 325 safety standards.

3. Product Overview

The FAAC 412-DX Gate Motor is a robust linear actuator designed for automating single swing gates. It features mechanical locking in both opened and closed positions for enhanced security and a convenient manual release mechanism for power failures.



Figure 1: The FAAC 412-DX gate motor arm, a linear actuator design, in silver and black.

Key Features:

- **Model:** FAAC 412-DX
- **Voltage:** 115 Volt
- **Application:** Light residential, single family use
- **Gate Type:** Single leaf, right-hinged gates
- **Gate Capacity:** Up to 500 lbs and 14 feet
- **Duty Cycle:** Operates up to 18 cycles per hour
- **Safety Compliance:** UL 325 compliant
- **Locking Mechanism:** Mechanical locking in opened and closed positions
- **Manual Release:** Convenient manual release for power failure situations

4. Setup and Installation

Installation of the FAAC 412-DX Gate Motor should be performed by experienced and qualified personnel to ensure proper function and safety. This operator is specifically designed for single right-hinged gates.

General Steps (Consult full installation guide for details):

1. **Mounting:** Securely mount the gate operator to the gate post and gate frame according to the provided dimensions and recommendations in the comprehensive installation manual. Ensure correct alignment for a right-hinged gate.
2. **Electrical Connection:** Connect the 115 Volt power supply and control wiring to the operator's control board. All electrical work must comply with local codes and be performed by a licensed electrician.
3. **Limit Switch Adjustment:** Adjust the mechanical limit switches to define the fully open and fully closed positions of the gate.
4. **Safety Devices:** Install and connect all required safety devices, such as photo-electric cells and safety edges, to ensure UL 325 compliance.
5. **Testing:** Thoroughly test the gate operator's functionality, including opening, closing, safety device response, and manual release.

5. Operating Instructions

Normal Operation:

The FAAC 412-DX Gate Motor is typically controlled by a remote transmitter, keypad, or other access control devices connected to the gate's control panel. Activate the control device to initiate the gate's opening or closing cycle.

- Pressing the activation button once will typically open or close the gate.
- Pressing the button again during operation may stop the gate or reverse its direction, depending on the control panel's programming.

Manual Release in Case of Power Failure:

In the event of a power outage, the gate can be operated manually using the integrated release mechanism.

1. Locate the manual release key or lever on the motor unit.
2. Insert the key or activate the lever as instructed in the detailed product manual to disengage the motor.
3. Once disengaged, the gate can be pushed open or closed by hand.

4. Remember to re-engage the motor once power is restored or manual operation is no longer needed to ensure automatic operation and security.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your FAAC 412-DX Gate Motor. Perform these checks periodically:

- **Visual Inspection:** Check for any signs of wear, damage, or corrosion on the motor arm, mounting brackets, and electrical wiring.
- **Lubrication:** Lubricate moving parts as recommended in the full product manual to reduce friction and wear.
- **Fasteners:** Ensure all mounting bolts and fasteners are tight and secure.
- **Gate Movement:** Verify that the gate moves freely and smoothly without excessive friction or binding.
- **Safety Devices:** Regularly test all safety devices (e.g., photo-electric sensors) to confirm they are functioning correctly.
- **Cleanliness:** Keep the motor unit and surrounding area clean and free from debris.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Gate does not respond to remote/keypad.	No power; remote battery dead; control board issue; safety device triggered.	Check power supply; replace remote battery; inspect control board connections; clear safety device path.
Gate opens but does not close (or vice versa).	Limit switch misadjustment; obstruction; safety device issue.	Adjust limit switches; remove obstruction; check safety device alignment/function.
Gate operates slowly or with difficulty.	Lack of lubrication; mechanical binding; motor wear.	Lubricate moving parts; check gate hinges/rollers for binding; contact technician for motor inspection.
Gate stops unexpectedly during operation.	Obstruction detected; safety device triggered; power fluctuation.	Remove obstruction; check safety device path; verify stable power supply.

8. Specifications

Model Number	412-DX (EMA-FAAC-412-DX-OPERATOR-O_FC)
Voltage	115 Volt
Application	Light Residential, Single Family Use
Gate Type	Single Leaf, Right Hinged Gate

Maximum Gate Weight	500 lbs (226 kg)
Maximum Gate Length	14 feet (4.27 meters)
Duty Cycle	18 cycles per hour
Safety Compliance	UL 325 Compliant
Locking Mechanism	Mechanical Locking (Opened and Closed Positions)
Manual Release	Yes
Manufacturer	FAAC
Date First Available	August 25, 2016

9. Warranty and Support

For information regarding the warranty period and terms for your FAAC 412-DX Gate Motor, please refer to the documentation provided at the time of purchase or contact your authorized FAAC dealer or the manufacturer directly. For technical support or service, please reach out to the seller or FAAC customer service.

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Example: How do I reset this device or fix this error?

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