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› [Seco-Larm Enforcer E-942FC-1K3SQ Electromagnetic Gate Lock User Manual](#)

## Seco-Larm E-942FC-1K3SQ

# Seco-Larm Enforcer E-942FC-1K3SQ Electromagnetic Gate Lock User Manual

Model: E-942FC-1K3SQ

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Seco-Larm Enforcer E-942FC-1K3SQ Electromagnetic Gate Lock. Please read this manual thoroughly before installation and use to ensure proper function and safety. This device is designed to provide secure locking for gates and doors by utilizing electromagnetic force.

## 2. SAFETY INFORMATION

- Ensure all power is disconnected before beginning installation or maintenance.
- Installation should be performed by qualified personnel in accordance with local electrical codes.
- Do not attempt to modify or repair the unit. Refer all servicing to authorized technicians.
- This device operates on DC power. Verify correct voltage and polarity before connecting.
- Keep hands and loose clothing clear of moving gate parts during operation.

## 3. PACKAGE CONTENTS

Verify that all components are present before proceeding with installation:

- 1x Electromagnetic Lock Unit (Main Body)
- 1x Armature Plate
- Mounting Hardware (screws, washers, bolts)
- Installation Template (if included)

## 4. PRODUCT OVERVIEW

The Seco-Larm Enforcer E-942FC-1K3SQ is an electromagnetic lock designed for high-security applications, offering a holding force of 1,300 lbs. It consists of a main electromagnet unit and a corresponding armature plate.



**Figure 1:** Seco-Larm Enforcer E-942FC-1K3SQ Electromagnetic Gate Lock. The image displays the main electromagnet unit (top, black and silver) and the separate armature plate (bottom, silver and black base) which attaches to the gate/door.

The electromagnet unit is typically mounted to the gate frame, while the armature plate is mounted to the gate itself. When power is applied to the electromagnet, it creates a magnetic field that attracts the armature plate, thus locking the gate. Removing power releases the lock.

## 5. SETUP AND INSTALLATION

### 5.1 Mounting the Electromagnet

1. Identify a suitable mounting location on the gate frame that provides a flat, stable surface for the electromagnet.
2. Use the provided template (if applicable) to mark drilling points for the electromagnet unit.
3. Drill pilot holes and securely fasten the electromagnet unit to the gate frame using the supplied screws and bolts. Ensure it is level and firmly attached.

### 5.2 Mounting the Armature Plate

1. Align the armature plate with the electromagnet unit on the gate, ensuring proper contact when the gate is closed.
2. Mark the drilling points for the armature plate on the gate.
3. Drill pilot holes and attach the armature plate to the gate. Ensure the plate can pivot slightly to allow for self-alignment with the electromagnet, which helps achieve maximum holding force.

### 5.3 Wiring

1. Connect the power wires from your DC power supply (not included) to the electromagnet unit. Refer to the wiring diagram provided with the product packaging for specific connections.
2. Ensure correct polarity (positive to positive, negative to negative) to prevent damage.
3. If integrating with an access control system (e.g., keypad, card reader), connect the control wires as per the access control system's instructions and the lock's wiring diagram.
4. Secure all wiring to prevent accidental disconnection or damage.

## 6. OPERATING INSTRUCTIONS

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The Seco-Larm Enforcer E-942FC-1K3SQ operates on a fail-safe principle, meaning it locks when power is applied and unlocks when power is removed.

- **To Lock:** Apply the specified DC voltage to the electromagnet unit. The magnetic field will engage the armature plate, securing the gate.
- **To Unlock:** Remove the DC voltage from the electromagnet unit. The magnetic field will dissipate, allowing the gate to be opened.
- This lock is typically integrated with an access control system (e.g., a keypad, remote control, or intercom system) that controls the power supply to the lock.

## 7. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your electromagnetic lock.

- **Cleaning:** Periodically clean the surface of both the electromagnet and the armature plate with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure surfaces are free of dirt, rust, or debris that could reduce holding force.
- **Inspection:** Regularly check all mounting screws and bolts for tightness. Inspect wiring for any signs of wear, fraying, or damage.
- **Alignment:** Verify that the armature plate and electromagnet are properly aligned when the gate is closed. Misalignment can reduce holding force.
- **Power Supply:** Ensure the power supply is stable and provides the correct voltage and current.

## 8. TROUBLESHOOTING

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If you encounter issues with your electromagnetic lock, refer to the following common problems and solutions:

- **Lock Not Engaging:**
  - Check power supply: Ensure the lock is receiving the correct DC voltage.
  - Inspect wiring: Verify all connections are secure and free from damage.
  - Check alignment: Ensure the electromagnet and armature plate are properly aligned and making full contact.
  - Clean surfaces: Remove any dirt or debris from the contact surfaces of the lock and plate.
- **Lock Not Releasing:**
  - Verify power removal: Ensure the power supply to the lock is completely cut off.
  - Check for residual magnetism: In rare cases, residual magnetism might occur. Ensure the armature plate can move freely.
- **Reduced Holding Force:**
  - Check for gaps: Ensure there are no gaps between the electromagnet and armature plate when engaged.
  - Inspect surfaces: Clean contact surfaces thoroughly.
  - Verify power: Ensure the lock is receiving adequate and stable power.

If problems persist, contact Seco-Larm technical support or a qualified technician.

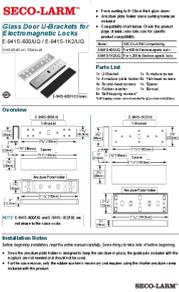
## 9. SPECIFICATIONS

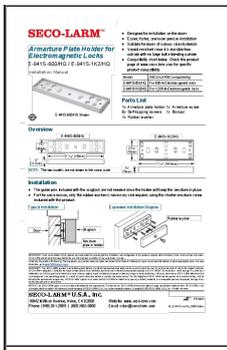
Feature	Specification
Model Number	E-942FC-1K3SQ
Holding Force	1,300 lbs (590 kg)
Dimensions (L x W x H)	12.7 x 27.94 x 7.62 cm (5 x 11 x 3 inches)
Item Weight	5 kg (11 lbs)
Material	Stainless Steel, Zinc
Lock Type	Electromagnetic
Colour	Stainless Steel
UPC	676544000808

## 10. WARRANTY AND SUPPORT

Specific warranty information for the Seco-Larm Enforcer E-942FC-1K3SQ Electromagnetic Gate Lock is not provided within this document. For details regarding warranty coverage, technical support, or service, please refer to the documentation included with your purchase or visit the official Seco-Larm website.

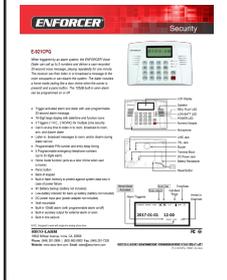
### Related Documents - E-942FC-1K3SQ

 <p><b>SECO-LARM</b> Glass Door U-Bracket for Electromagnetic Locks E-941S-600/UQ and E-941S-1K2/UQ Installation Manual</p>	<p><a href="#">SECO-LARM E-941S Series U-Brackets for Electromagnetic Locks Installation Manual</a></p> <p>Installation manual for SECO-LARM E-941S-600/UQ and E-941S-1K2/UQ glass door U-brackets designed for electromagnetic locks. Includes parts list, overview, and step-by-step installation instructions.</p>
 <p><b>ENFORCER</b> Retro-Reflective Photoelectric Beam Sensor E-936-S45RRGQ Installation Manual</p>	<p><a href="#">ENFORCER E-936-S45RRGQ Retro-Reflective Photoelectric Beam Sensor Installation Manual</a></p> <p>Installation manual for the ENFORCER E-936-S45RRGQ Retro-Reflective Photoelectric Beam Sensor. Features include 45ft range, IP66 weatherproof rating, and UL 325 compliance for gate operators. Provides specifications, installation, adjustment, and troubleshooting guides.</p>



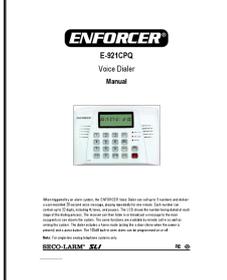
### [SECO-LARM E-941S-600/HQ / E-941S-1K2/HQ Electromagnetic Lock Armature Plate Holder Installation Manual](#)

Installation manual for SECO-LARM E-941S-600/HQ and E-941S-1K2/HQ armature plate holders for electromagnetic locks. Features, compatibility, parts list, and installation guide.



### [ENFORCER E-921CPQ Voice Dialer Security System Component](#)

Detailed information on the ENFORCER E-921CPQ Voice Dialer, a security system component by SECO-LARM. Features include user-recorded messages, remote listening/broadcasting, home mode, panic button, and a 105dB siren. Includes technical specifications, wiring diagram, and related products.



### [ENFORCER E-921CPQ Voice Dialer User Manual](#)

User manual for the SECO-LARM ENFORCER E-921CPQ Voice Dialer, detailing its features, installation, programming, operation, and remote control capabilities for alarm systems.



### [ENFORCER SK-B111-PQ Indoor Bluetooth Keypad/Proximity Reader - Installation & Specs](#)

Installation guide and technical specifications for the SECO-LARM ENFORCER SK-B111-PQ Indoor Bluetooth Single-Gang Keypad and Proximity Reader. Includes wiring diagrams, important notes, and compliance information.