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› [GATEXPERT SW300DC Single Automatic Gate Opener User Manual](#)

GATEXPERT SW300DC-S

GATEXPERT SW300DC Single Automatic Gate Opener User Manual

Model: SW300DC-S

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GATEXPERT SW300DC Single Automatic Gate Opener. This system is designed for single swing gates weighing up to 660 pounds and with a maximum length of 10 feet. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: Improper installation or use can lead to serious injury or death. Always follow all safety precautions.

- Ensure all electrical connections are made by a qualified electrician and comply with local electrical codes.
- Disconnect power before performing any maintenance or service.
- Keep hands, feet, and clothing clear of the gate and opener mechanism during operation.
- Do not allow children to play near the gate or operate the remote controls.
- Install safety devices such as photo-eye sensors to prevent the gate from closing on obstructions.
- Regularly inspect the gate and opener for signs of wear, damage, or misalignment.
- The gate opener is designed for single swing gates only. Do not use for other applications.



Figure 2.1: Overview of the GATEXPERT SW300DC Single Automatic Gate Opener kit, showing the main components including the actuator, control box, remotes, and various installation hardware.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1 x Gate Opener Motor (Actuator)
- 1 x Control Box
- 2 x Remote Controls
- 1 x Accessories Box (containing mounting brackets, bolts, nuts, pins, keys)
- 1 x User Manual (this document)
- 2 x CR2032 batteries (included for remotes)

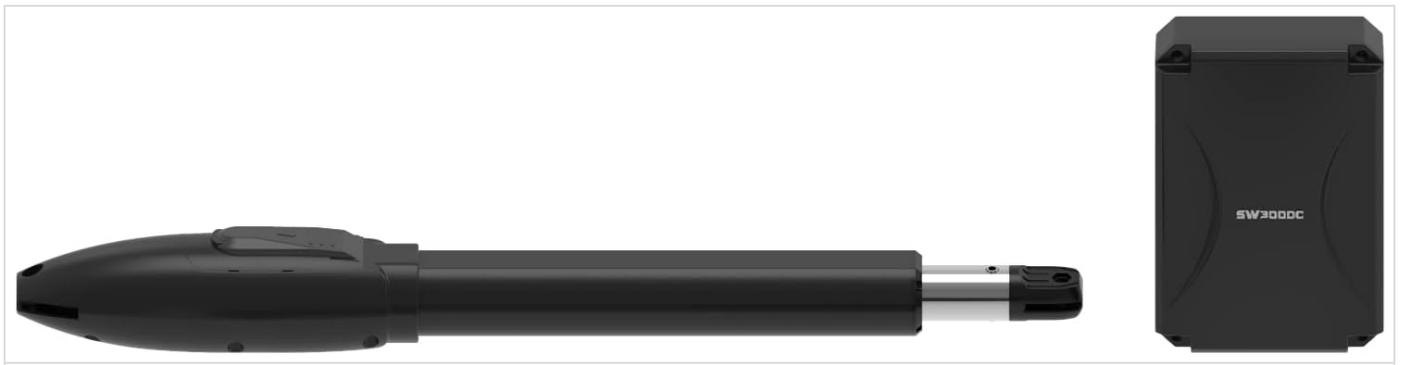


Figure 3.1: Side view of the SW300DC actuator and the control box, illustrating their compact design.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your gate opener.

4.1 Pre-installation Checklist

- Ensure your gate is in good working condition, swings freely, and is properly balanced.
- Verify the gate weight is less than 660 lbs and length is less than 10 ft.
- Plan the location for the control box and actuator, considering power access and gate movement.
- Gather necessary tools (drills, wrenches, measuring tape, level, etc.).

4.2 Mounting the Actuator and Control Box

1. Determine the optimal mounting points on the gate post and gate frame for the actuator.
2. Securely attach the mounting brackets using appropriate fasteners.
3. Mount the actuator to the brackets, ensuring it is level and aligned with the gate's pivot point.
4. Install the control box in a secure, weather-protected location near the gate, ensuring easy access for wiring.

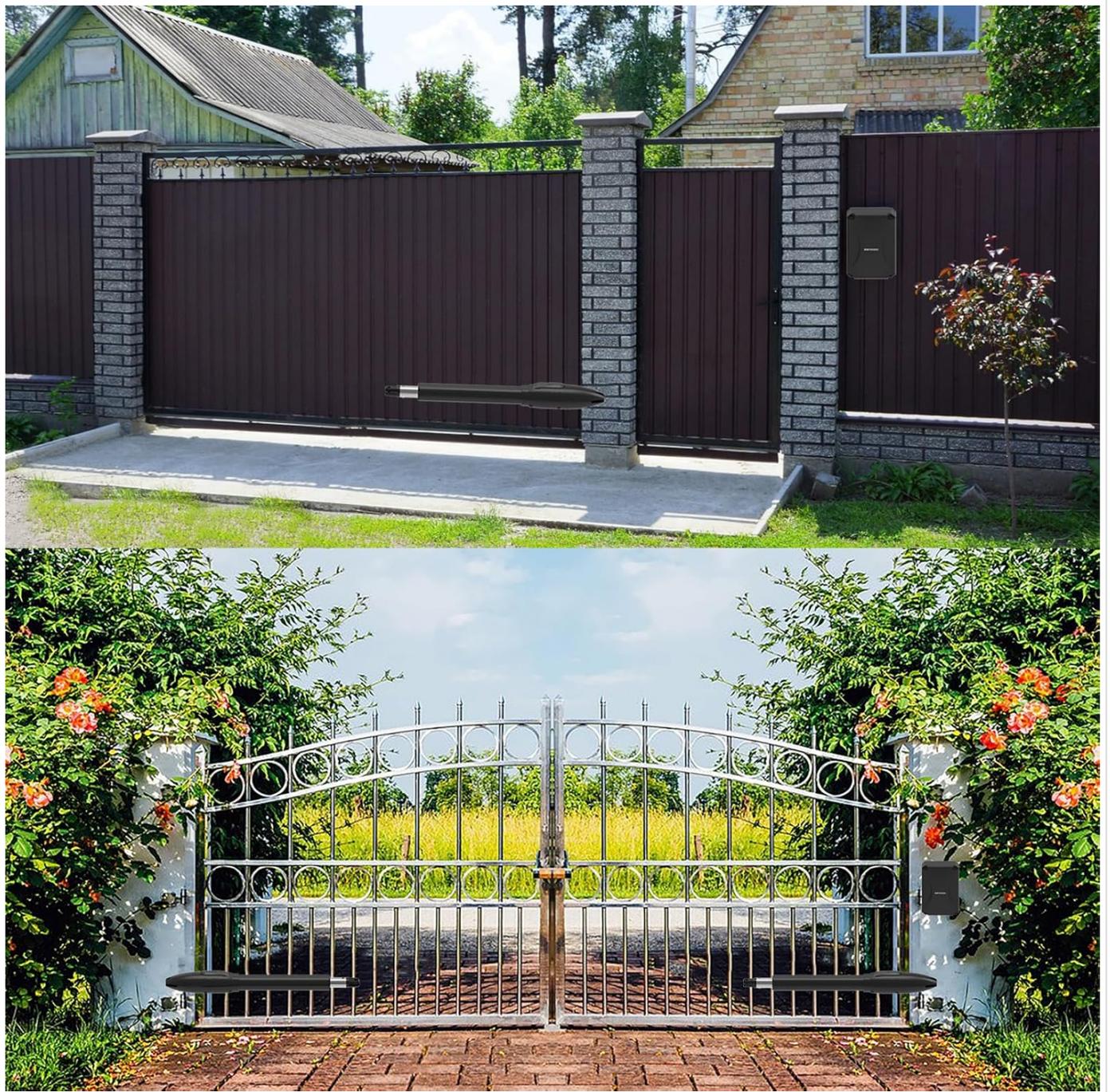


Figure 4.1: Examples of the GATEXPERT SW300DC gate opener installed on different types of swing gates, demonstrating typical mounting configurations.

4.3 Electrical Connections

The SW300DC operates on DC24V. It includes a 110V/24V transformer for direct connection to a 110V AC power supply.

- Connect the 24V DC output from the transformer to the control board.
- Wire the actuator motor to the designated terminals on the control board.
- If installing optional accessories (e.g., photo-eyes, keypads), refer to their specific wiring diagrams and connect them to the appropriate terminals on the control board.
- Ensure all wiring is properly insulated and protected from environmental elements.



Figure 4.2: Internal view of the control box, showing the circuit board, transformer, and terminal blocks for electrical connections.

5. OPERATING INSTRUCTIONS

5.1 Initial Travel Setting

Before first use, the gate opener's travel limits must be set. The SW300DC uses an electromechanical limit switch.

1. Power on the system.
2. Follow the specific programming steps outlined in the control board's supplementary guide (usually a small diagram or sticker inside the control box) to teach the opener the fully open and fully closed positions. This typically involves pressing a "SET" button and manually moving the gate or using the remote to define limits.
3. Test the gate's full travel several times to ensure it opens and closes smoothly without obstruction and stops at the desired positions.

5.2 Remote Control Operation

The system comes with two remote controls for convenient operation.

- Press the designated button on the remote to open or close the gate.
- Pressing the button again during operation will typically stop the gate.
- Refer to the control board's programming instructions for adding or removing remote controls.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your gate opener.

- **Monthly:** Inspect the gate and opener for any loose bolts, worn parts, or signs of corrosion. Lubricate moving parts as recommended by the manufacturer (e.g., pivot points, hinges).
- **Quarterly:** Check the electrical connections for tightness and signs of wear. Clean any debris from the actuator arm and control box.
- **Annually:** Test all safety features, such as photo-eye sensors, to ensure they are functioning correctly.
- Keep the area around the gate clear of obstructions.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Gate does not respond to remote.	Dead remote battery; remote not programmed; power issue.	Replace remote battery; reprogram remote; check power supply to control box.
Gate opens partially or stops unexpectedly.	Obstruction; limit switch issue; gate friction.	Check for obstructions; re-set travel limits; lubricate gate hinges.
Motor runs but gate does not move.	Actuator disengaged; mechanical failure.	Ensure actuator is properly engaged; inspect for broken parts.
Gate operates slowly.	Low voltage; excessive friction; motor wear.	Check power supply; lubricate gate; consult support if motor is failing.

For issues not listed here or if solutions do not resolve the problem, please contact GATEXPERT customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	SW300DC-S
Applicable Gate Type	Single Swing Gate
Max. Gate Weight	660 lbs (300 kg)
Max. Gate Length	10 ft (3 meters)
Motor Voltage	DC24V
Power Supply	110V AC (via included 110V/24V transformer)
Limit Switch Type	Electromechanical
Product Dimensions	104.14 x 10.01 x 8.56 cm (Actuator)
Item Weight	9.3 kg (Total package)
Included Batteries	2 x CR2032 (for remotes)

9. WARRANTY AND SUPPORT

The GATEXPERT SW300DC Single Automatic Gate Opener comes with a one-year warranty from the date of purchase. For technical assistance, warranty claims, or any questions regarding your product, please contact GATEXPERT customer service.

- **Customer Service:** Please refer to the contact information provided on the GATEXPERT official website or your purchase documentation.
- When contacting support, please have your model number (SW300DC-S) and purchase date ready.