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› GATEXPERT SW300DC Automatic Gate Opener User Manual

GATEXPERT SW300DC-D

GATEXPERT SW300DC Automatic Gate Opener User Manual

Model: SW300DC-D

1. INTRODUCTION

Thank you for choosing the GATEXPERT SW300DC Automatic Gate Opener. This system is designed to provide convenient and reliable automation for dual swing gates. This manual provides essential information for the safe installation, operation, and maintenance of your gate opener. Please read this manual thoroughly before installation and keep it for future reference.

The SW300DC is suitable for dual swing gates where each gate leaf is shorter than 10 feet and has a maximum weight capacity of 660 pounds per arm.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. Failure to follow these instructions could result in serious injury or property damage.

- Read all instructions carefully before beginning installation.
- Ensure all electrical connections comply with local codes and regulations. Installation should be performed by a qualified professional if you are unsure.
- Disconnect power to the gate opener before performing any maintenance or repairs.
- Keep children and pets away from the gate area, especially when the gate is in motion.
- Do not operate the gate opener if any part is damaged or malfunctioning.
- Install the warning label in a prominent location near the gate, as indicated in the packing list.
- Ensure proper clearance for the gate's movement to prevent entrapment.

3. PACKING LIST

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

- 2 x Motors (Gate Opener Arms)
- 1 x Control Box with Control Board
- 2 x Remote Controls

- 1 x Accessories Box (containing mounting hardware, keys, etc.)
- 1 x User Manual (this document)
- 1 x Warning Label



Figure 3.1: Complete SW300DC Gate Opener Kit Contents



Figure 3.2: Gate Opener Motors and Control Box



4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your gate opener. It is recommended to have this system installed by a professional.

4.1 Power Supply

The SW300DC operates on a DC24V motor. It can be powered by directly plugging into a 110V AC power supply or by connecting to a compatible solar power system (sold separately).

4.2 Mounting the Motors and Control Box

Mount the gate opener motors to each gate leaf and the gate posts using the provided mounting hardware. Ensure the motors are level and aligned correctly for smooth operation. The control box should be mounted in a secure, weather-protected location near the gate, allowing for easy access to wiring and controls.

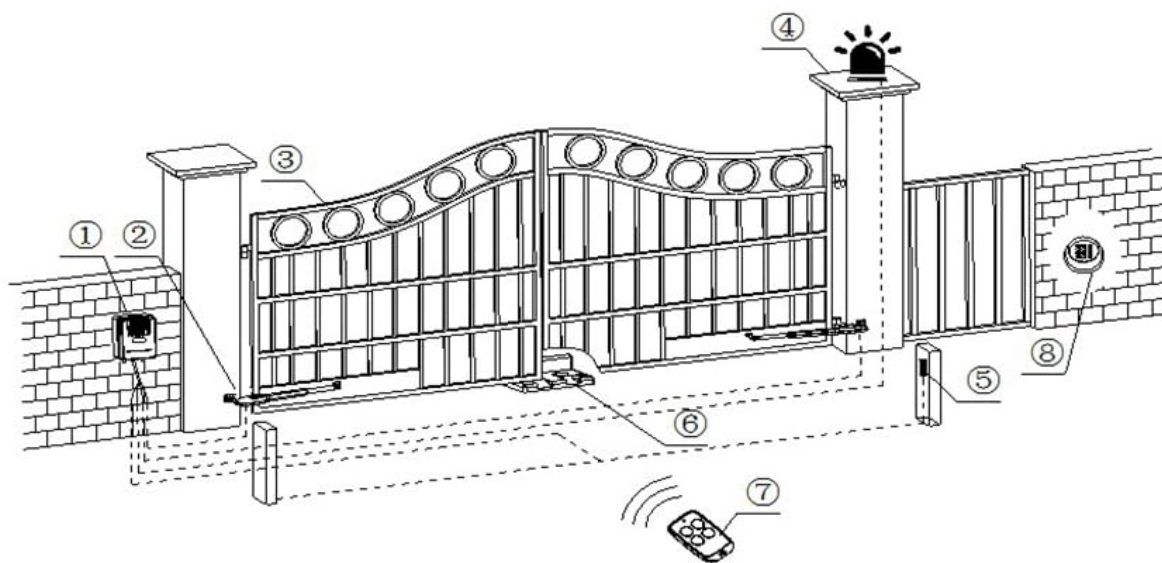


Figure 1

- | | | | |
|--------------------------|-------------------------|------------------------------|-------------------|
| ① Control box | ③ Gate | ⑤ Infrared sensor (optional) | ⑦ Remote control |
| ② Gate opener (optional) | ④ Alarm lamp (optional) | ⑥ Limit stopper | ⑧ Wireless keypad |

Figure 4.1: System Installation Diagram

1. Control box
2. Gate opener (optional)
3. Gate
4. Alarm lamp (optional)
5. Infrared sensor (optional)
6. Limit stopper
7. Remote control
8. Wireless keypad

4.3 Wiring Connections

Refer to the detailed wiring diagram in the separate user manual provided in the accessories box for specific connections of the

motors, power supply, and any optional accessories (e.g., infrared sensors, alarm lamps, keypads). Ensure all connections are secure and insulated.

4.4 Travel Setting (Limit Switch Adjustment)

The SW300DC uses an electromechanical limit switch system. Before operating the gate opener for the first time, it is essential to complete the travel setting procedure. This calibrates the open and close limits of the gate. Refer to the specific instructions in the detailed user manual for the precise steps to set the travel limits. Incorrect travel settings can lead to improper operation or damage.

5. OPERATING INSTRUCTIONS

5.1 Remote Control Operation

Your gate opener comes with two remote controls for convenient operation. Ensure the remotes are programmed to the control board before use. The programming steps are detailed in the comprehensive user manual.

- Pressing a programmed button on the remote will initiate the gate's movement (open or close).
- Pressing the button again during movement will stop the gate.
- A third press will reverse the gate's direction.

5.2 Manual Release

In case of power failure or malfunction, the gate opener can be manually disengaged. Use the provided keys to unlock the manual release mechanism on each motor arm. This allows you to open or close the gates by hand.

6. MAINTENANCE

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

- **Monthly:** Inspect the gate and opener for any signs of wear, damage, or loose connections. Check that the gate moves freely without obstruction.
- **Quarterly:** Clean the gate opener arms and control box exterior. Ensure no debris is obstructing the moving parts. Check the lubrication of moving joints if applicable (refer to detailed manual).
- **Annually:** Have a qualified technician inspect the system, including electrical components, motor performance, and safety features.
- Keep the area around the gate clear of vegetation and obstacles.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, consult the detailed user manual or contact customer support.

Problem	Possible Cause	Solution
Gate does not respond to remote control.	◦ Remote battery is dead. ◦ Remote not programmed. ◦ Power issue to control box. ◦ Limit settings incorrect.	◦ Replace remote battery. ◦ Re-program remote control (refer to manual). ◦ Check power supply to the control box. ◦ Verify and reset travel settings.

Problem	Possible Cause	Solution
Gate stops unexpectedly or reverses.	◦ Obstruction in gate path. ◦ Safety sensor (if installed) triggered. ◦ Incorrect force settings.	◦ Remove any obstructions. ◦ Check and clean safety sensors. ◦ Adjust force settings (refer to manual).
Motor makes noise but gate does not move.	◦ Manual release engaged. ◦ Mechanical obstruction. ◦ Motor or gear issue.	◦ Disengage manual release. ◦ Inspect gate and opener for physical obstructions. ◦ Contact customer support for motor issues.

8. SPECIFICATIONS

Feature	Detail
Model Number	SW300DC-D
Manufacturer	GATEXPERT
Applicable Gate Type	Dual Swing Gates
Max Gate Length (per leaf)	10 feet
Max Gate Weight (per arm)	660 pounds
Motor Voltage	DC24V
Power Supply Options	110V AC or Solar System (optional)
Item Weight	36.4 pounds
Product Dimensions	41 x 3.94 x 3.37 inches
Color	Black
First Available Date	November 30, 2021

9. WARRANTY AND SUPPORT

The GATEXPERT SW300DC Automatic Gate Opener comes with a one-year warranty from the date of purchase. If you encounter any problems or have questions regarding your gate opener, please do not hesitate to contact our customer service team. We are committed to providing the best possible support and will do our best to assist you. For support, please refer to the contact information provided in the detailed user manual or on the GATEXPERT official website.

