

manuals.plus /

› TOPENS /

› TOPENS CK2500 Automatic Sliding Gate Opener User Manual

TOPENS CK2500

TOPENS CK2500 Automatic Sliding Gate Opener User Manual

Model: CK2500 | Brand: TOPENS

- Introduction
- Safety
- Contents
- Installation
- Operation
& Support
- Maintenance
- Troubleshooting
- Specifications
- War

1. INTRODUCTION

The TOPENS CK2500 Automatic Sliding Gate Opener is designed for heavy-duty sliding gates, providing a secure and convenient access solution. This chain-driven electric gate motor is capable of operating gates up to 5700 pounds in weight and 40 feet in length. It features a 1-1/4 HP 1000W AC motor, ensuring reliable and quiet performance for residential, commercial, courtyard, farm, and ranch applications. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure safe and efficient use of your gate opener.

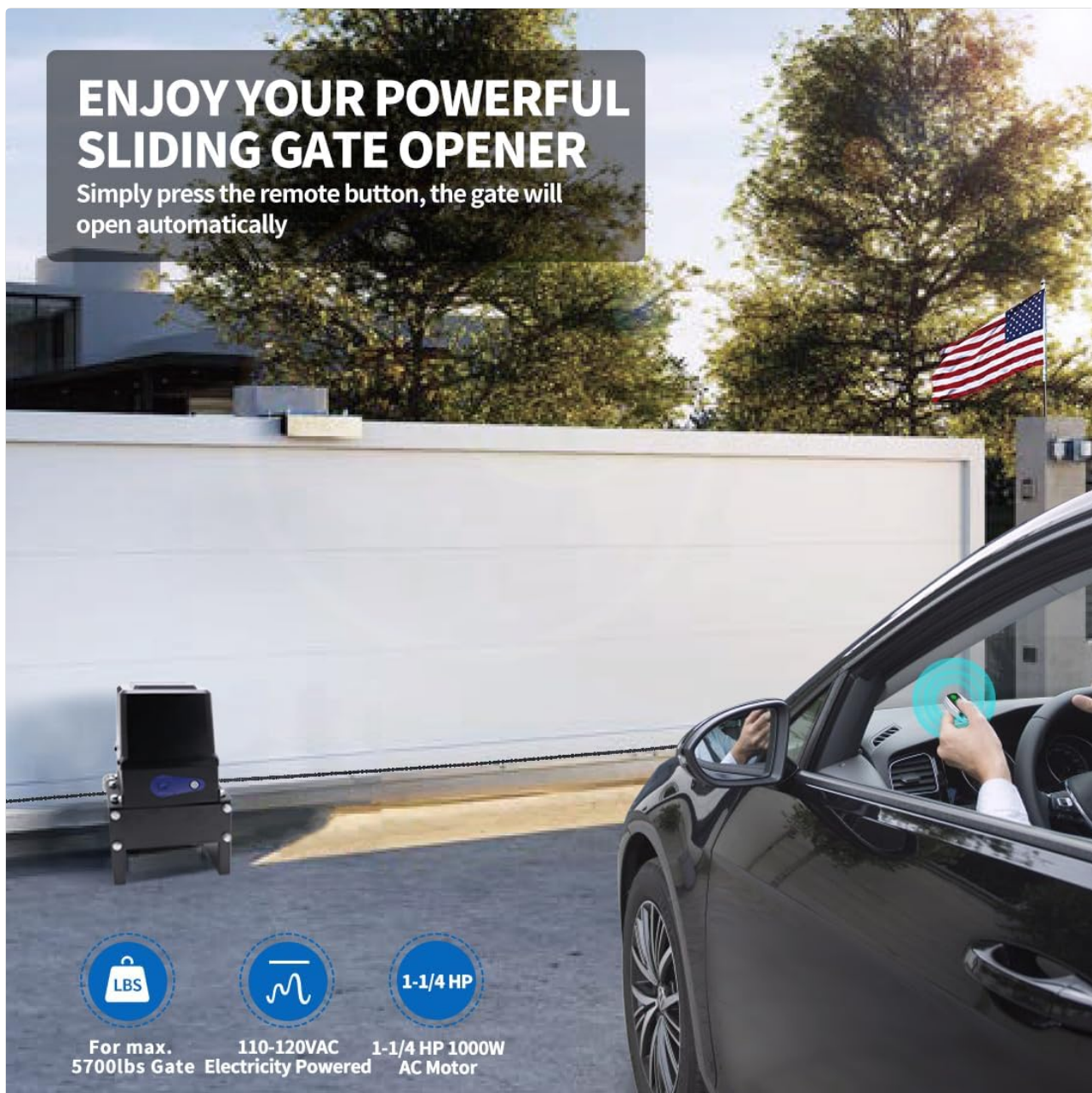


Figure 1.1: The TOPENS CK2500 Automatic Sliding Gate Opener in use, demonstrating its application for property access.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions 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 comply with local codes and regulations.
- Disconnect power to the gate opener before performing any maintenance or repairs.
- Keep children and pets away from the gate area, especially during operation.
- Do not allow children to operate the gate opener or play with remote controls.
- Install the gate opener on a structurally sound gate and post system.
- Ensure the gate moves freely and smoothly before installing the opener.
- Use the provided photo eye sensor to prevent the gate from closing on obstructions.
- In case of power failure, use the manual release key to operate the gate manually.
- Do not attempt to repair the gate opener yourself. Contact qualified personnel for service.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any parts are missing or damaged, please contact TOPENS

customer support.



Figure 3.1: Main components included with the TOPENS CK2500 Automatic Sliding Gate Opener.

- Sliding Gate Opener Unit (CK2500)
- 20ft Roller Chain
- Two Remote Controls
- TC102 Photo Eye Beam Sensor (Pair)
- Manual Release Keys
- Magnet Assembly (Limit Switches)
- Mounting Hardware (Bolts, Nuts, Washers)
- Instruction Manual

4. INSTALLATION GUIDE

This section provides step-by-step instructions for installing your TOPENS CK2500 gate opener. It is recommended to have basic mechanical and electrical knowledge for this installation. No welding is required.

4.1. Mounting the Operator

The gate opener should be mounted on a stable, level concrete pad or a sturdy post adjacent to the gate. Ensure sufficient

clearance for the gate's movement and the chain installation.

1. Determine the optimal mounting position, ensuring the drive sprocket aligns with the gate's chain path.
2. Securely fasten the gate opener unit to the mounting surface using appropriate bolts and anchors.
3. Verify the unit is level and stable.

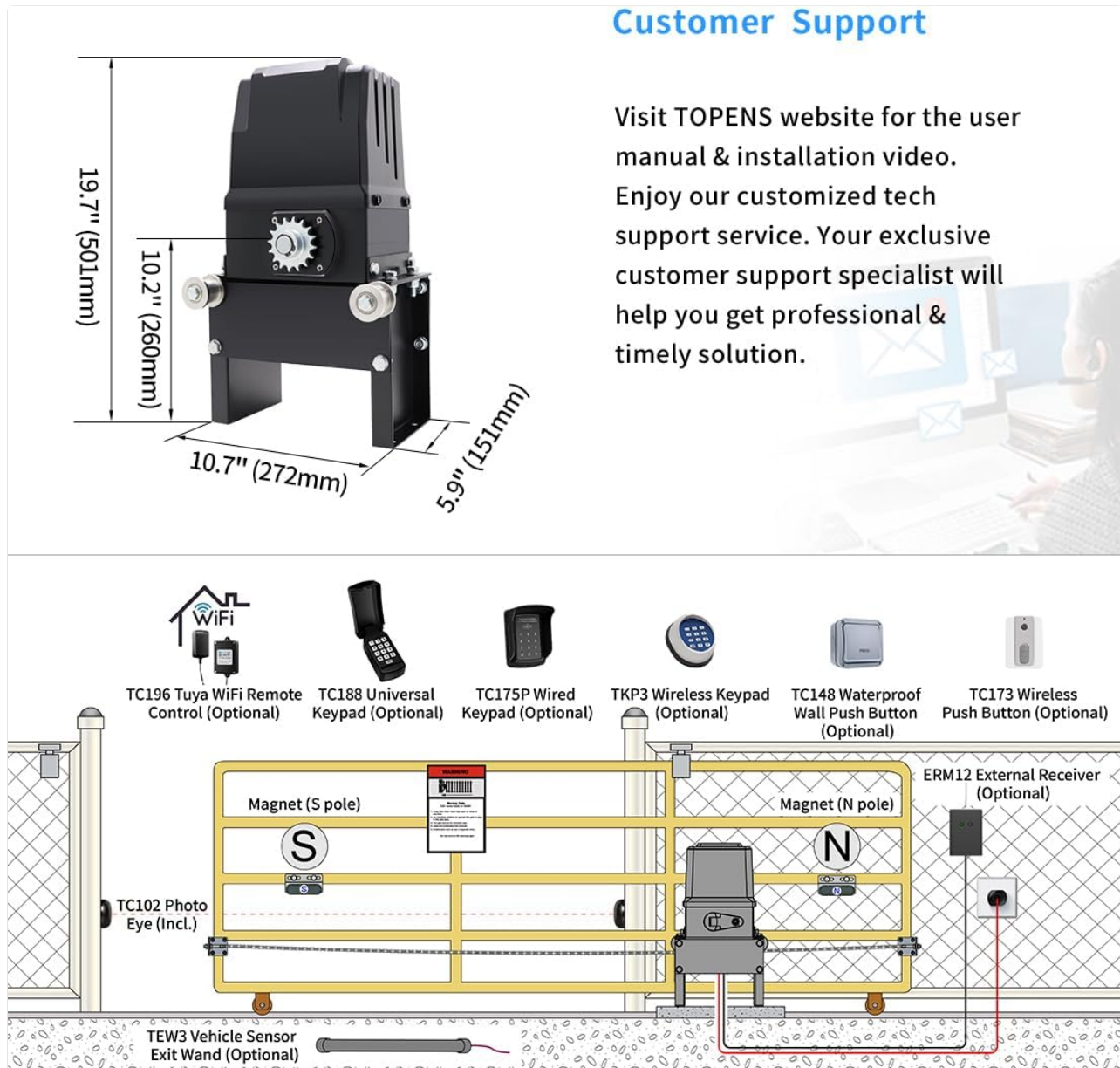


Figure 4.1: Dimensions of the CK2500 unit and a general installation diagram including optional accessories like the photo eye and external receiver.

4.2. Installing the Drive Chain

The 20ft roller chain connects the gate to the opener's drive sprocket, facilitating movement.

1. Attach one end of the chain securely to the gate.
2. Route the chain around the drive sprocket of the opener.
3. Attach the other end of the chain to the gate, ensuring proper tension. The chain should be taut but not overly tight.
4. Adjust the chain length as needed to fit your gate.



Figure 4.2: Illustration of the robust chain drive system.

4.3. Electrical Wiring

The CK2500 operates on 110-120VAC electricity **ONLY**. Ensure power is OFF before making any connections.

1. Connect the AC power supply to the designated terminals inside the control box.
2. Ensure all wiring is secure and properly insulated.
3. Refer to the wiring diagram provided in the full manual for specific connections.



Figure 4.3: Power connection for the 110-120VAC system.

4.4. Adjusting Limit Switches

The electromagnetism limit switches define the gate's open and closed positions.

1. Mount the magnet assembly to the gate at the desired open and closed positions.
2. Ensure the magnets are correctly oriented to trigger the internal sensors.
3. Test the gate's movement and adjust magnet positions for precise stopping points.

STRONG POWERFUL MOTOR

Easy DIY Installation with Assembly Parts Included



Figure 4.4: Magnet assembly for setting gate limits.

4.5. Installing Photo Eye Sensor (TC102)

The TC102 Photo Eye Beam Sensor is a crucial safety feature that reverses the gate if an obstruction is detected during closing.

1. Mount the transmitter and receiver units of the photo eye sensor on opposite sides of the gate opening, ensuring they are aligned.
2. Connect the photo eye sensor wiring to the control board as per the detailed wiring diagram.
3. Test the sensor by breaking the beam during gate closing to ensure it reverses.



Figure 4.5: TC102 Photo Eye Beam Sensor and remote control.

5. OPERATION

This section details how to operate your TOPENS CK2500 Automatic Sliding Gate Opener.

5.1. Remote Control Pairing

To operate the gate opener with a remote control, it must first be paired with the system. Refer to the full manual for specific pairing instructions for your remote model.

5.2. Basic Gate Operation

Pressing the paired remote button will initiate the gate's movement. A single press will open or close the gate. Pressing again during movement will stop the gate.



Figure 5.1: Overview of key operational features including self-closing, midway mode, and safety mechanisms.

5.3. Midway Mode

The "midway mode" allows for partial gate opening, useful for pedestrian access or when only a small opening is required for vehicles.

- Activate midway mode via a specific remote button or setting (refer to full manual).
- The gate will open to a pre-set partial position.

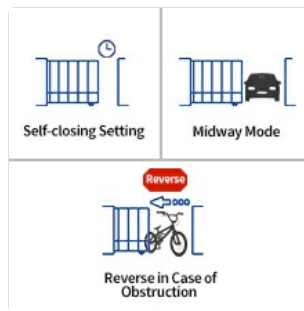


Figure 5.2: Visual representation of self-closing, midway mode, and obstruction reversal.

5.4. Auto-Close Function

The "auto-close" function automatically closes the gate after a set period, enhancing property security.

- This feature can be enabled and configured for a specific delay time through the control board settings.
- Ensure the photo eye sensor is correctly installed and functioning when using auto-close.

5.5. Manual Release

In case of power outages or remote control loss, the gate can be operated manually using the provided release key.

- Insert the manual release key into the lock cylinder on the opener unit.
- Turn the key to disengage the motor, allowing the gate to be pushed open or closed by hand.
- Remember to re-engage the motor after manual operation for automatic functionality.



Figure 5.3: Manual release key for operating the gate during power outages.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your TOPENS CK2500 gate opener.

- **Monthly:** Inspect the gate's movement for any obstructions or friction. Ensure the gate wheels and hinges are clean and lubricated.
- **Quarterly:** Check the drive chain tension and lubricate it if necessary. Inspect all electrical connections for corrosion or looseness.
- **Annually:** Test the photo eye sensor and other safety features to ensure they are functioning correctly. Clean the exterior of the opener unit.
- Keep the area around the gate opener clear of debris, snow, or ice.



Figure 6.1: The gate opener features a waterproof design for outdoor use, but regular cleaning is still recommended.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your gate opener. For more complex problems, refer to the full user manual or contact customer support.

Problem	Possible Cause	Solution
Gate does not respond to remote.	Dead remote battery, remote not paired, power outage.	Replace remote battery, re-pair remote, check power supply.
Gate stops or reverses unexpectedly.	Obstruction detected by photo eye, limit switch issue, excessive friction.	Clear obstruction, check photo eye alignment, inspect gate path, adjust limit switches.
Motor runs but gate does not move.	Chain disengaged or broken, manual release engaged.	Check chain connection and tension, disengage manual release.
Gate opens partially.	Midway mode activated, limit switch misadjusted.	Deactivate midway mode, re-adjust open limit switch.

8. SPECIFICATIONS

Technical specifications for the TOPENS CK2500 Automatic Sliding Gate Opener.

- **Model:** CK2500
- **Max. Gate Weight:** 5700 lbs
- **Max. Gate Length:** 40 ft
- **Motor Power:** 1-1/4 HP (1000W) AC Motor
- **Power Supply:** 110-120VAC
- **Drive Mode:** Chain Drive (20ft chain included)
- **Operating Temperature:** 0°F to 120°F
- **Item Weight:** 55.9 pounds
- **Product Dimensions:** 10.7 x 5.9 x 19.7 inches
- **Batteries (for remotes):** 6 CR2 batteries required (included)
- **Safety Features:** Photo Eye Beam Sensor, Auto-Close, Midway Mode, Manual Release Key

9. WARRANTY AND CUSTOMER SUPPORT

TOPENS products come with a 12-month warranty against defects and a 30-day exchange & return policy. For technical assistance, user manuals, installation videos, or personalized service, please visit the official TOPENS website or contact their customer support team.

Contact Information:

- **Website:** www.topens.com (Example link, actual link not provided in JSON, so using a generic one)
- **Email:** Refer to TOPENS website for support email.
- **Phone:** Refer to TOPENS website for support phone number.

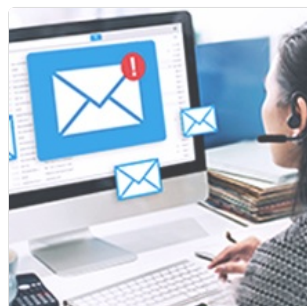








Figure 9.1: TOPENS offers professional customer support for all inquiries.

Related Documents - CK2500

	<p>TOPENS DKC500(S/Y) Sliding Gate Opener User's Manual</p> <p>This user manual provides comprehensive instructions for the installation, operation, and maintenance of the TOPENS DKC500(S/Y) Sliding Gate Opener. It includes safety precautions, parts lists, technical specifications, and troubleshooting guides.</p>
	<p>TOPENS CK2500 Sliding Gate Opener User Manual</p> <p>Comprehensive user manual for the TOPENS CK2500 Automatic Sliding Gate Opener, detailing installation, safety, operation, troubleshooting, and maintenance for driveway gate automation.</p>
	<p>TOPENS Automatic Gate Openers - RK1200T, AT1202, A8131 Product Overview</p> <p>Explore the TOPENS range of automatic gate openers, featuring the RK1200T sliding gate opener, AT1202 dual swing gate opener, and A8131 single swing gate opener. Learn about their robust features, security benefits, and specifications for driveway automation.</p>
	<p>TOPENS DKR1100ST Solar Sliding Gate Opener Installation Manual</p> <p>Comprehensive installation manual for the TOPENS DKR1100ST Solar Sliding Gate Opener. Learn how to install and operate this heavy-duty, battery-powered automatic gate motor for driveway gates up to 2600lbs, featuring solar panel and remote control.</p>
	<p>TOPENS BK800 Sliding Gate Opener User's Manual</p> <p>Comprehensive user manual for the TOPENS BK800 automatic sliding gate opener, covering installation, operation, safety, and maintenance. Learn how to install, program remotes, troubleshoot issues, and maintain your gate opener for optimal performance.</p>
	<p>TOPENS CK2500 Sliding Gate Opener Installation Manual</p> <p>Comprehensive installation manual for the TOPENS CK2500 sliding gate opener, providing step-by-step instructions, safety guidelines, and specifications for proper setup and operation of automatic sliding gates.</p>