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› CO-Z 1400lb Rack Driven Sliding Gate Opener User Manual (Model SGO-RA11-A0)

CO-Z SGO-RA11-A0

CO-Z 1400lb Rack Driven Sliding Gate Opener User Manual

Model: SGO-RA11-A0 | Brand: CO-Z

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your CO-Z 1400lb Rack Driven Sliding Gate Opener. Please read this manual thoroughly before installation and use to ensure proper function and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Keep children and pets away from the gate area during operation.
- Do not allow children to operate the gate opener or play with remote controls.
- Regularly inspect the gate and opener for signs of wear, damage, or misalignment.
- Ensure the gate is properly balanced and moves freely before installing the opener.
- Install safety devices such as infrared sensors to prevent the gate from closing on obstacles.
- Always use the manual release key during power outages or maintenance.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Sliding Gate Opener Motor Unit
- Remote Controls (x2)
- Nylon Gear Racks (12 lightweight sections)
- Infrared Sensors (Transmitter and Receiver)
- Mounting Hardware (nuts, washers, bolts, screws)
- Magnetic Limit Switches (High and Low)
- Manual Release Keys
- Installation Brackets and Plates

For a visual overview of the components, please refer to the video below:

Your browser does not support the video tag.

Video: Overview of the CO-Z 1400lb Rack Driven Sliding Gate Opener components.

4. INSTALLATION GUIDE

4.1 Rack Installation

The gear racks are essential for the gate's movement. Ensure they are installed at the correct height and securely fastened.

1. Pre-install the racks along the gate without fully tightening the screws. Drill holes in the gate based on the gear height.
2. Position the gate opener motor unit. Adjust the racks' height to ensure proper engagement with the motor's gear.
3. Securely tighten all screws to fix the racks in place, allowing for smooth gate sliding.

Refer to the video for detailed rack installation steps:

Your browser does not support the video tag.

Video: Step-by-step guide for installing the gear racks on the sliding gate.

4.2 Base Installation

The motor unit must be securely mounted on a stable base.

1. Prepare a pre-cast concrete base with a wire hole for the power line.
2. Thread the power line through the wire hole in the base.
3. Place the gate opener motor unit onto the base.
4. Secure the motor unit to the base using the provided nuts, washers, and bolts. Tighten them firmly on both sides.

See the video for base installation details:

Your browser does not support the video tag.

Video: Instructions for mounting the gate opener motor unit to its base.

4.3 Wiring

Proper wiring is crucial for the safe and correct operation of the gate opener. Refer to your manual for specific

wiring diagrams.

1. Open the motor unit cover to access the control board.
2. Thread the power cable through the designated entry point.
3. Connect the power line's three wires (live, neutral, ground) to the mainboard's terminal block as per the manual's instructions. Ensure the ground wire is not mixed with live or neutral wires.

Watch the video for wiring instructions:

Your browser does not support the video tag.

Video: Guide to connecting the power wires to the gate opener's control board.

4.4 Limit Switch Mounting

Limit switches define the gate's open and closed positions.

1. Assemble the high and low magnetic limit switches.
2. To install the high magnetic limit switch, power on the opener. Manually move the gate to its fully open position (far right). Then, move it 2-4 inches to the left. Slide the high limit switch along the rack to the right until the 13th indicator light on the control board lights up. Secure it with screws.
3. To install the low magnetic limit switch, manually move the gate to its fully closed position (far left). Then, move it 2-4 inches to the right. Slide the low limit switch along the rack to the left until the 13th indicator light on the control board lights up. Secure it with screws.

For visual instructions on limit switch installation and adjustment, refer to the video:

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Video: Demonstrating the installation and adjustment of the magnetic limit switches.

4.5 Infrared Sensor Installation

Infrared sensors provide an important safety feature, preventing the gate from closing on obstacles.

1. To pair your infrared sensors, connect the V+ and V- wires on your transmitter.
2. Connect V+, V-, COM, and NC wires on the receiver using respective colored wires.
3. Match the transmitter and receiver wires based on colors. Twist together transmitter V+ with receiver V+, and transmitter V- with receiver V- and COM.
4. Disconnect the mainboard signal terminal, and remove the short circuit. Connect all the wires from the sensors to the signal terminal, and then plug it back in.
5. Align and install the transmitter and receiver in the desired location on opposite sides of the gate opening.
6. After installation, the 8th indicator light on the control board should light up if no obstacles are detected, and go out if obstacles are present.

Detailed steps for infrared sensor wiring and installation are shown in the video:

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Video: Comprehensive guide for wiring and installing the infrared safety sensors.

5. OPERATING INSTRUCTIONS

5.1 Remote Control Pairing

Pair your remote controls to operate the gate opener wirelessly.

1. Press the AN1 button on the control board.
2. While the indicator light is on, press the biggest button on your remote control twice. If the indicator light flashes and then goes out, your remote is successfully paired.

See the video for remote control pairing:

Your browser does not support the video tag.

Video: Instructions for pairing your remote control with the gate opener.

5.2 Manual Release

In case of power failure or maintenance, you can manually operate the gate.

1. Insert the manual release key into the lock on the motor unit.
2. Turn the key and pull the lever to disengage the motor from the gate.
3. To re-engage, push the lever back and remove the key.

The video demonstrates the manual release mechanism:

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Video: How to use the manual release key to disengage and re-engage the motor.

5.3 Testing Gate Operation and Safety Sensors

After installation, test the gate's automatic operation and the safety sensors.

1. Press a button on your paired remote control to check if the gate opens and closes automatically.
2. During closing, place an object or your hand in the path of the infrared sensors. The gate should stop and retract if an obstacle is detected.
3. If the gate closes when a pedestrian passes during opening but not during closing, adjust DIP 2 on the mainboard.

Observe the testing procedure in the video:

Your browser does not support the video tag.

Video: Testing the automatic gate operation and the infrared safety sensors.

6. MAINTENANCE

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

- **Monthly:** Inspect the gate for proper balance and smooth movement. Check all mounting hardware for tightness.
- **Quarterly:** Clean the gear racks and motor gear to remove debris. Lubricate moving parts as recommended by the manufacturer.
- **Annually:** Have a qualified technician inspect the entire system, including electrical connections, safety sensors, and limit switches.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Gate does not respond to remote.	Remote not paired, dead battery, or signal interference.	Re-pair remote, replace battery, check for obstructions.
Gate stops or reverses unexpectedly.	Obstacle detected by infrared sensors, or limit switch issue.	Clear obstacles, check sensor alignment, inspect limit switches.
Gate does not open/close fully.	Limit switches incorrectly set.	Adjust limit switches as per installation guide.
Motor makes noise but gate doesn't move.	Motor disengaged from gate, or mechanical obstruction.	Re-engage motor using manual release, check for obstructions in gate path.

8. SPECIFICATIONS

- **Model Number:** SGO-RA11-A0
- **Gate Capacity:** Up to 1400 lb. (635 kg)
- **Gate Length:** Up to 40 ft. (12.2 m)
- **Motor Power:** 280W
- **Item Weight:** 35.6 pounds (16.1 kg)
- **Product Dimensions:** 9.9 x 9 x 10.2 inches (25.1 x 22.9 x 25.9 cm)
- **Color:** Gray
- **Ingress Protection (IP) Rating:** IP44 (Weather Resistant)
- **Noise Level:** 56 dB Max.
- **Operating Temperature:** -4°F to 158°F (-20°C to 70°C)

9. WARRANTY & SUPPORT

Your CO-Z 1400lb Rack Driven Sliding Gate Opener comes with a manufacturer's warranty. Please refer to the product packaging or the official CO-Z website for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact CO-Z customer service. Contact information can typically be found on the product packaging or on the official CO-Z website: [Visit the CO-Z Store on Amazon](#).

