

Gyxel EGA-15

Gyxel EGA-15 Swing Gate Opener Control Board User Manual

Model: EGA-15

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Gyxel EGA-15 Swing Gate Opener Control Board. This control board is designed to be compatible with all Gyxel Swing Gate Openers and serves as a direct replacement for the JUJIANG EGA-15 Swing Door Opener control board. Please read these instructions thoroughly before proceeding with installation or operation to ensure proper function and safety.

2. SAFETY INFORMATION

Adherence to safety guidelines is crucial during installation and operation of the gate opener system. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Disconnect Power:** Always disconnect all power sources to the gate opener system before performing any installation, maintenance, or troubleshooting.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified technicians or individuals with a thorough understanding of electrical systems and gate opener mechanics.
- **Pinch Points:** Be aware of potential pinch points and moving parts of the gate during operation. Keep hands and clothing clear.
- **Children and Pets:** Keep children and pets away from the gate area, especially during operation. Do not allow children to operate the gate controls.
- **Emergency Access:** Ensure there is a manual release mechanism for the gate in case of power failure or system malfunction.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly matched according to the wiring diagram. Incorrect wiring can damage the control board or other components.

3. PRODUCT OVERVIEW

The Gyxel EGA-15 Control Board is the central component for managing your swing gate opener system. It features various terminals and indicators for power, motor control, safety devices, and accessory connections.

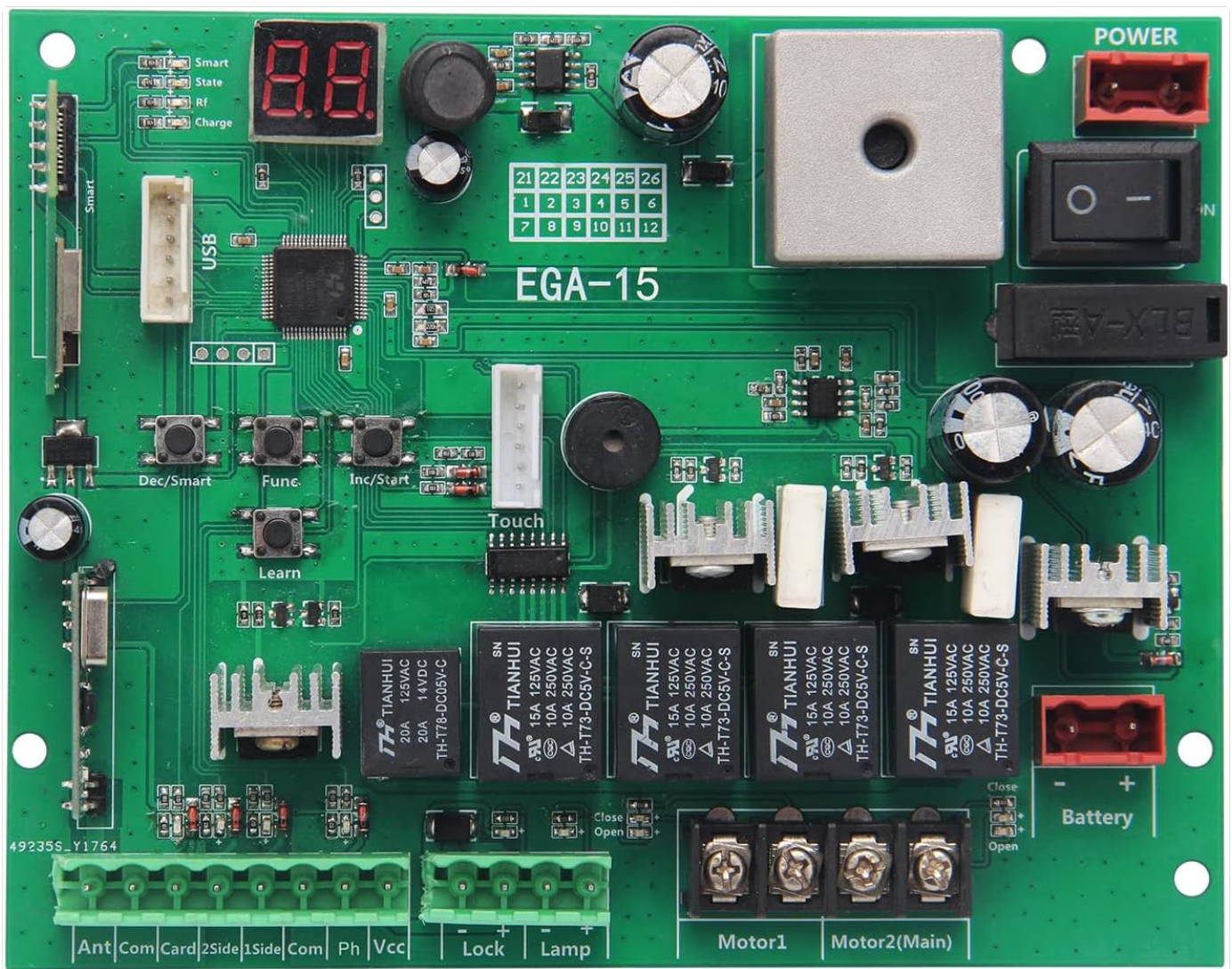


Image 3.1: Top-down view of the Gyxel EGA-15 Swing Gate Opener Control Board. The board is green with various electronic components, relays, terminal blocks, and a digital display. Key labels include 'POWER', 'EGA-15', 'Motor1', 'Motor2(Main)', 'Battery', 'Lock', 'Lamp', 'Ant', 'Com', 'Card', '2Side', 'Ph', 'Vcc', 'USB', 'Smart', 'State', 'Charge', 'Dec/Smart', 'Func', 'Inc/Start', 'Touch', and 'Learn'.

3.1 Key Components and Terminals

- **Power Switch:** Main power on/off for the control board.
- **Digital Display:** Shows operational status and programming parameters.
- **Motor1 / Motor2 (Main) Terminals:** Connections for the gate opener motors. Motor2 is typically designated as the main motor.
- **Battery Terminals:** For connecting a backup battery system.
- **Lock / Lamp Terminals:** Connections for an electric lock and a warning lamp.
- **Ant / Com Terminals:** Antenna and common ground connections for remote control receiver.
- **Card / 2Side / Com / Ph / Vcc Terminals:** Various input terminals for accessories such as card readers, two-sided operation, photocells, and power supply.
- **USB Port:** For potential firmware updates or diagnostics.
- **Control Buttons (Dec/Smart, Func, Inc/Start, Learn, Touch):** Used for programming and adjusting settings.
- **DIP Switches:** For configuring specific operational modes.

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing or installing the EGA-15 control board. It is assumed that the gate opener mechanisms are already installed.

4.1 Pre-Installation Checklist

- Ensure all power to the gate opener system is disconnected.
- Have necessary tools: screwdrivers, wire strippers, multimeter (optional).
- Familiarize yourself with the existing wiring if replacing an old board. Take photos for reference.

4.2 Installation Steps

1. **Remove Old Board (if applicable):** Carefully disconnect all wires from the old control board, noting their positions. Unscrew and remove the old board.
2. **Mount New Board:** Secure the Gyxel EGA-15 control board in the designated enclosure using appropriate screws. Ensure it is firmly mounted and protected from environmental elements.
3. **Connect Power:** Connect the main power supply wires to the designated power input terminals on the board. Ensure correct polarity if DC power is used.
4. **Connect Motors:** Connect the motor wires to the Motor1 and Motor2 (Main) terminals. Refer to your gate opener's specific wiring diagram for correct motor assignment and polarity.
5. **Connect Accessories:** Connect any accessories such as safety photocells, keypads, remote control receivers, electric locks, or warning lamps to their respective terminals. Pay close attention to the 'Com' (common) terminals for shared connections.
6. **Connect Battery (Optional):** If using a backup battery, connect it to the Battery terminals, observing correct polarity.
7. **Initial Power-Up:** Once all connections are secure, restore power to the system. The digital display should illuminate.
8. **Remote Control Pairing:** Use the 'Learn' button on the control board to pair your remote controls. Refer to the specific instructions for your remote model.
9. **Adjust Settings:** Use the control buttons (Dec/Smart, Func, Inc/Start) and DIP switches to configure gate travel limits, opening/closing speeds, auto-close delays, and other operational parameters as needed. Consult the detailed programming guide for specific settings.



Image 4.1: A person's hands are shown working on a gate opener component, illustrating the installation process. This emphasizes the hands-on nature of setting up the system.

5. OPERATING INSTRUCTIONS

Once the Gyxel EGA-15 control board is installed and configured, operating your swing gate opener is straightforward.

5.1 Basic Operation

- **Remote Control:** Press the designated button on your paired remote control to open or close the gate. A single press typically initiates the cycle (open/close/stop).
- **Wired Push Button/Keypad:** If connected, activate the gate using a wired push button or by entering the correct code on a keypad.
- **Automatic Close:** If configured, the gate will automatically close after a set delay once it has fully opened.
- **Safety Features:** Photocell sensors will prevent the gate from closing if an obstruction is detected in its path. The gate will reverse or stop.



Image 5.1: A black 4-button remote control with a silver trim and a keychain clip. This remote is used to operate the gate opener system.

6. MAINTENANCE

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

- **Visual Inspection:** Periodically inspect the control board for any signs of damage, loose connections, or corrosion.

- **Cleanliness:** Keep the control board enclosure clean and free from dust, insects, and moisture.
- **Wiring Checks:** Ensure all wiring connections remain tight and secure.
- **Battery Check (if applicable):** If a backup battery is installed, check its charge and condition periodically.
- **Gate Mechanism:** Ensure the gate itself moves freely and smoothly. Lubricate hinges and moving parts as recommended by the gate manufacturer.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the Gyxel EGA-15 control board.

7.1 Common Issues and Solutions

- **Gate Not Responding:**
 - Check if the main power switch on the control board is ON.
 - Verify power supply to the control board.
 - Ensure remote controls are paired correctly. Re-pair if necessary using the 'Learn' button.
 - Check safety photocells for obstructions or misalignment.
- **One Gate Arm Not Opening/Closing:**
 - This specific issue, where one gate arm operates correctly but the other does not, can often be resolved by replacing the control board. Ensure all motor wires are correctly connected to Motor1 and Motor2 terminals.
 - Inspect the wiring to the non-functioning motor for damage or loose connections.
- **Gate Stops Mid-Cycle:**
 - Check for obstructions in the gate's path.
 - Verify that the gate arms are not binding or encountering excessive resistance.
 - Review programming settings for travel limits or force sensitivity.
- **Digital Display Not On:**
 - Confirm main power supply is connected and active.
 - Check the power switch on the board.

Note: For complex issues or if troubleshooting steps do not resolve the problem, contact Gyxel customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	EGA-15
Manufacturer	Gyxel
Item Weight	8 ounces
Product Dimensions	1.9 x 8.2 x 5.9 inches
Color	Green

Included Components	Control board
Batteries Required?	No (for the board itself, but may be required for connected accessories or backup)

9. WARRANTY AND SUPPORT

Gyxel is committed to providing reliable products and customer satisfaction.

9.1 Warranty Information

The Gyxel EGA-15 Swing Gate Opener Control Board comes with a **12-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accidents, unauthorized repairs, or acts of nature. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting guidance, or warranty inquiries, please contact Gyxel customer support. Our team is available to help you with any questions regarding your EGA-15 control board or other Gyxel products.



Image 9.1: A graphic illustrating key customer benefits: Professional Customer Support, Remote Control compatibility, and a 12-month Warranty.

© 2025 Gyxel. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question