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LEPREM 92367110

LEPREM Sliding Gate Motor Control Board User Manual

Model: 92367110

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the LEPREM Sliding Gate Motor Control Board. This control board is designed specifically for automatic sliding gate openers and their corresponding motors. It offers advanced features such as soft start/stop, adjustable parameters, and compatibility with various safety and control accessories.

Key Features:

- Soft start and soft stop functionality with adjustable width.
- Adjustable working time for precise gate operation.
- Adjustable motor output torque for optimal performance.
- Automatic closing function with adjustable delay time.
- Interfaces for keyboard/single button, photo beam safety sensors, and alarm lights.
- LED indicators for displaying operational status.
- Supports learning up to 25 remote controls (433MHz, HCS301, SN1646 rolling code).

2. Safety Information

Please read all safety warnings and instructions carefully before installing and operating the control board. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Installation must be performed by qualified personnel in accordance with local electrical codes.
- Disconnect power before performing any wiring or maintenance.
- Ensure all connections are secure and properly insulated.
- This board is designed for sliding gate motors only. Do not use with other motor types.
- Keep children and pets away from the gate area during operation.
- Do not attempt to repair the board yourself. Contact qualified service personnel.

3. Package Contents

Verify that all components are present in your package:

- LEPREM Sliding Gate Motor Control Board (1 unit)
- *Optional, depending on kit purchased:* Remote Control(s) (1 to 4 units)
- *Note:* User manual is provided via email and does not come with the physical package. Remote controls do not include batteries.

4. Product Overview

Familiarize yourself with the components of the control board.

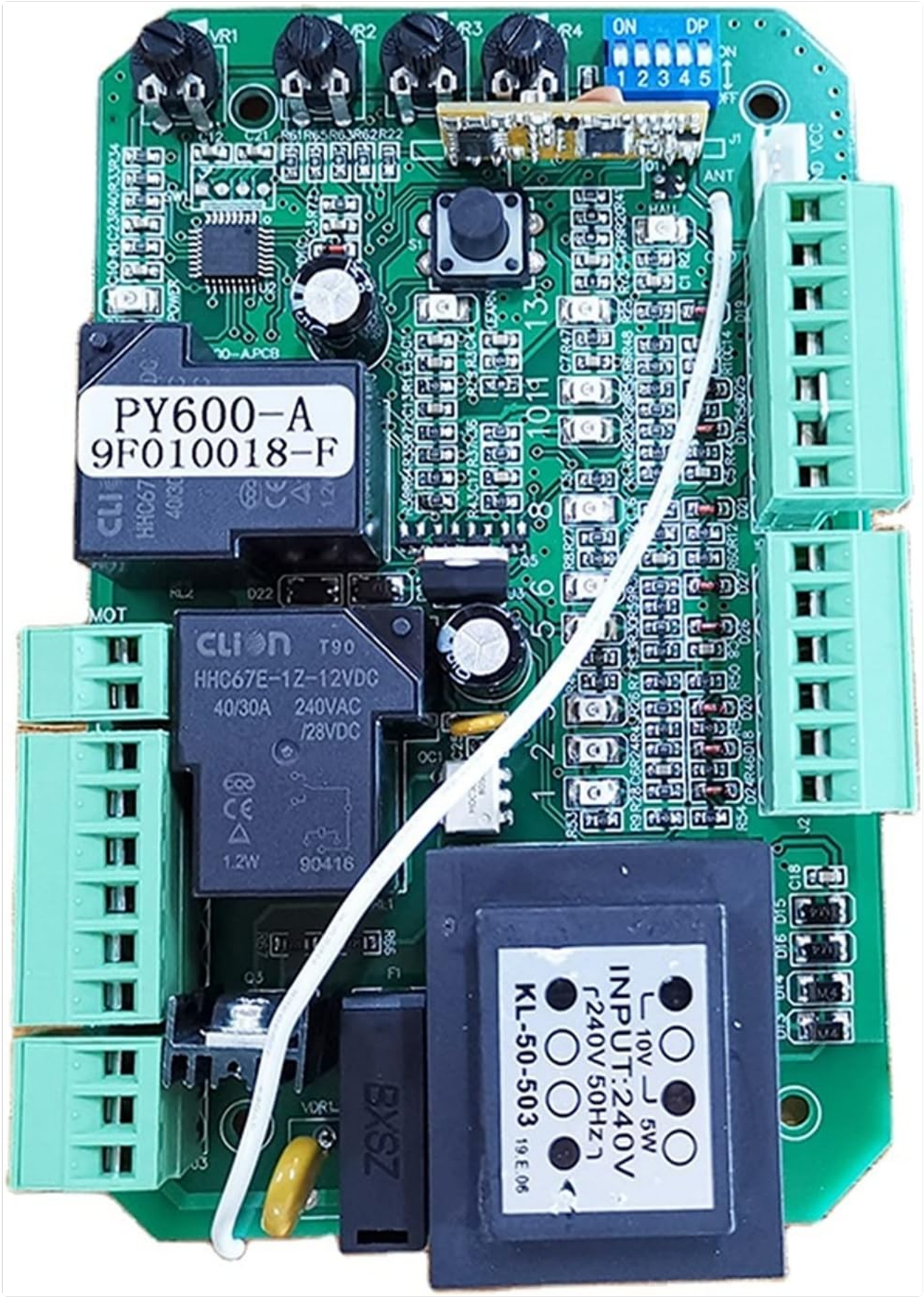


Figure 4.1: Top view of the LEPREM Sliding Gate Motor Control Board, showing various relays, capacitors, and connection terminals.

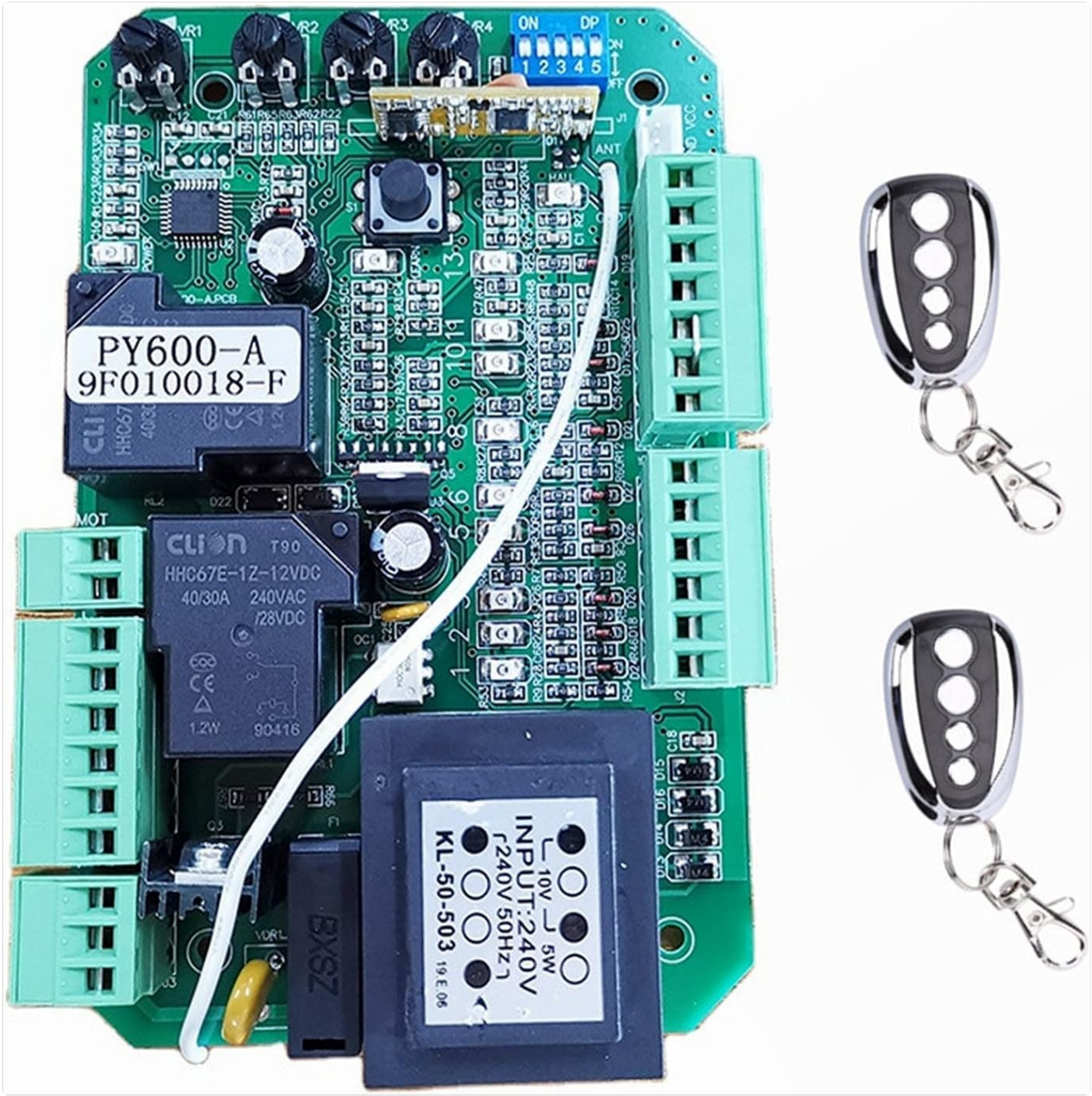


Figure 4.2: The control board displayed alongside two optional remote controls, which are used for wireless gate operation.

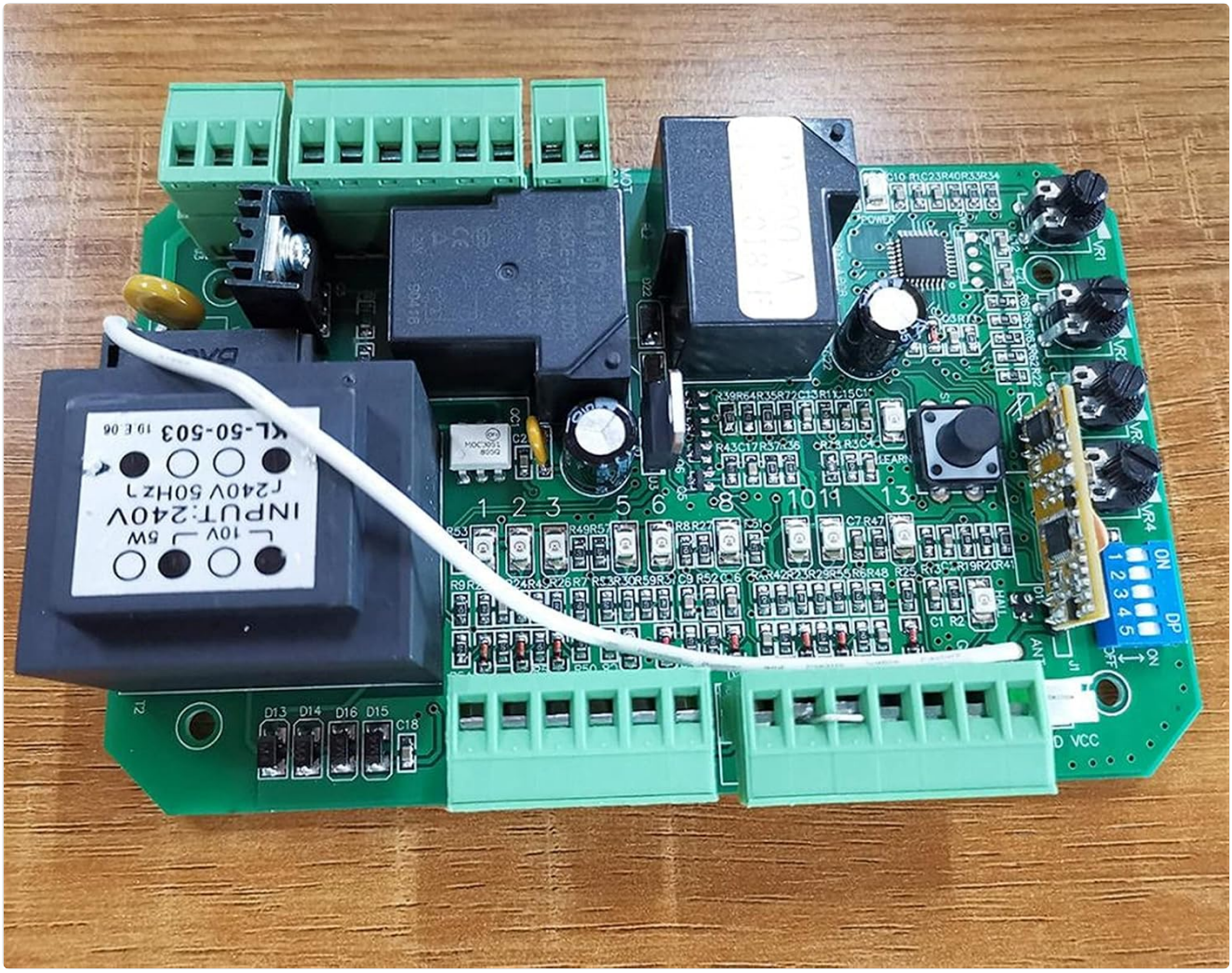


Figure 4.3: Side view of the control board, highlighting the green screw terminals for various electrical connections.



Figure 4.4: Angled view of the control board, showing the blue DIP switches for configuration and the four potentiometers (VR1-VR4) for fine-tuning settings.



Figure 4.5: Another angled perspective of the control board, providing a clear view of the main power input and motor output terminals.

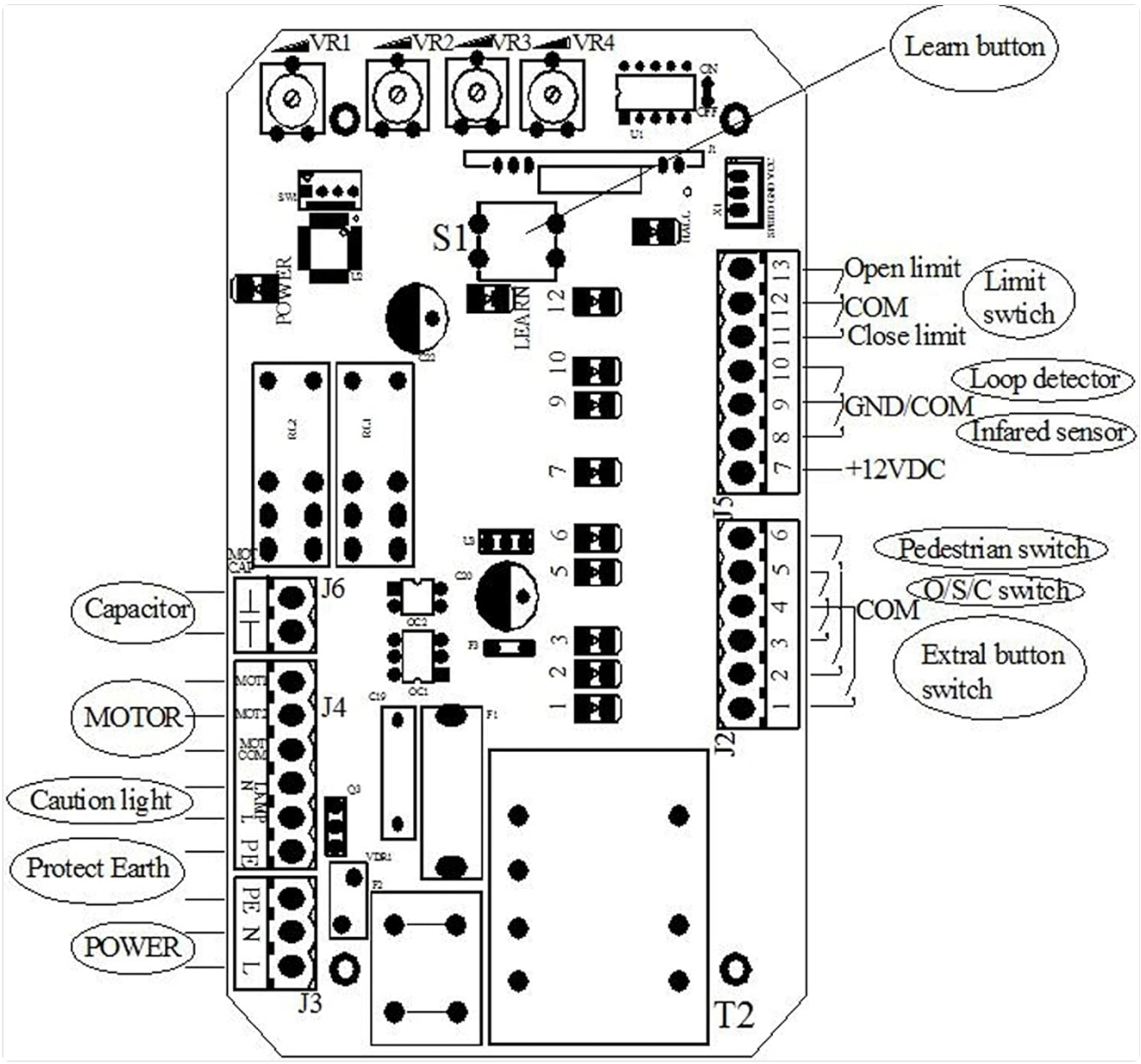


Figure 4.6: Detailed diagram of the control board, illustrating the layout of components and connection points for power, motor, sensors, and control inputs. This diagram is essential for proper wiring.

5. Setup and Installation

Before beginning installation, ensure power is disconnected from the gate motor system. Refer to Figure 4.6 for the wiring diagram.

5.1 Wiring Connections:

1. **Power Input (J3):** Connect the AC power supply (240V, 50Hz) to the L (Live) and N (Neutral) terminals. Ensure the Earth (PE) terminal is properly grounded.
2. **Motor Connection (J4):** Connect your sliding gate motor to the MOT1 and MOT2 terminals. Ensure correct polarity for desired gate movement.
3. **Capacitor (J5):** Connect the motor's start capacitor to the designated terminals if required by your motor.
4. **Caution Light (J6):** Connect an optional caution light to these terminals.
5. **Limit Switches (J2, terminals 10-12):** Connect the Open Limit and Close Limit switches to their respective terminals. The COM terminal is common for both.
6. **Infrared Sensor (J2, terminals 8-9):** Connect the infrared safety beam sensor to these terminals.

7. **Single Button/Keyboard Interface (J2, terminals 5-7):** Connect external control devices such as a push button or keypad to these terminals.
8. **Antenna (ANT):** Connect the provided antenna wire for remote control reception.

5.2 Initial Configuration (DIP Switches and Potentiometers):

The blue DIP switches (ON/DP) and potentiometers (VR1-VR4) are used for initial setup and fine-tuning. Refer to the detailed e-manual for specific settings. Generally:

- **DIP Switches:** Control functions like automatic closing, soft start/stop behavior, and other operational modes.
- **Potentiometers (VR1-VR4):** Adjust parameters such as motor torque, soft stop width, and working time.

6. Operating Instructions

6.1 Remote Control Programming:

The remote controls are not pre-programmed. To program a remote control:

1. Press the 'Learn' button (S1) on the control board (refer to Figure 4.6). The LED indicator will illuminate.
2. Press any button on the remote control you wish to program. The LED indicator on the board will flash, indicating successful pairing.
3. Repeat for additional remote controls. The board can learn up to 25 remote controls.
4. To clear all learned remote controls, press and hold the 'Learn' button for approximately 8 seconds until the LED indicator flashes rapidly and then turns off.

6.2 Adjusting Operational Parameters:

The following parameters can be adjusted using the potentiometers and DIP switches:

- **Soft Start/Stop Width:** Adjust the ramp-up and ramp-down speed of the gate.
- **Working Time:** Set the maximum duration the motor will run.
- **Motor Output Torque:** Adjust the power delivered to the motor.
- **Automatic Closing Time:** Set the delay before the gate automatically closes after opening. This function can also be disabled.

Refer to the comprehensive e-manual for detailed instructions on adjusting each specific parameter.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your gate system. Always disconnect power before performing any maintenance.

- **Visual Inspection:** Periodically check the control board for any signs of damage, loose connections, or corrosion.
- **Cleanliness:** Keep the board free from dust, dirt, and moisture. Use a soft, dry brush or compressed air for cleaning.
- **Wiring:** Ensure all wiring connections remain secure.
- **Sensors:** Regularly clean and test safety sensors (e.g., infrared beams) to ensure they are functioning correctly.

8. Troubleshooting

If you encounter issues with your gate system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Gate does not respond to remote control.	Remote not programmed; remote battery low; antenna issue.	Program remote control (Section 6.1); replace remote battery; check antenna connection.
Gate opens but does not close automatically.	Automatic closing function disabled or time set to maximum; safety sensor obstructed.	Enable/adjust automatic closing time (Section 6.2); clear obstruction from safety beam; clean sensor lenses.
Gate stops unexpectedly during operation.	Obstruction detected by safety sensor; motor overload; limit switch issue.	Check for obstructions; verify motor is not strained; inspect limit switch wiring and position.
LED indicators not lighting up.	No power to the board.	Check power supply and connections (Section 5.1).

If the problem persists after attempting these solutions, please contact customer support.

9. Specifications

Attribute	Value
Manufacturer	LEPREM
Item Model Number	92367110
Product Dimensions	3 x 2 x 1 cm
Item Weight	2 Kilograms
Color	1 Board
Material	Metal
Number of Items	1
Number of Pieces	1
ASIN	B0CSCRFPT6
First Available Date	January 15, 2024

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact LEPREM customer service through the retailer where the product was acquired. Ensure you have your product model number (92367110) and purchase details ready when contacting support.

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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.

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