

PNI MAB300

PNI MAB300 Swing Gate Automation Kit

Instruction Manual

Model: MAB300

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of the PNI MAB300 Swing Gate Automation Kit. Please read this manual thoroughly before beginning installation or operation to ensure proper functionality and to prevent injury or damage. Retain this manual for future reference.

Safety Warning: Installation should only be performed by qualified personnel. Disconnect power before any maintenance or service.

2. PACKAGE CONTENTS

The PNI MAB300 Swing Gate Automation Kit includes the following components:

- 2 x 40W Piston Motors
- 1 x Control Unit
- 2 x Remote Controls
- 2 x Photocells
- 1 x Warning Lamp
- 1 x Stop Rubber
- Mounting Accessories Kit (brackets, bolts, keys)



Image: Overview of all components included in the PNI MAB300 kit.



Image: The two 40W piston motors.

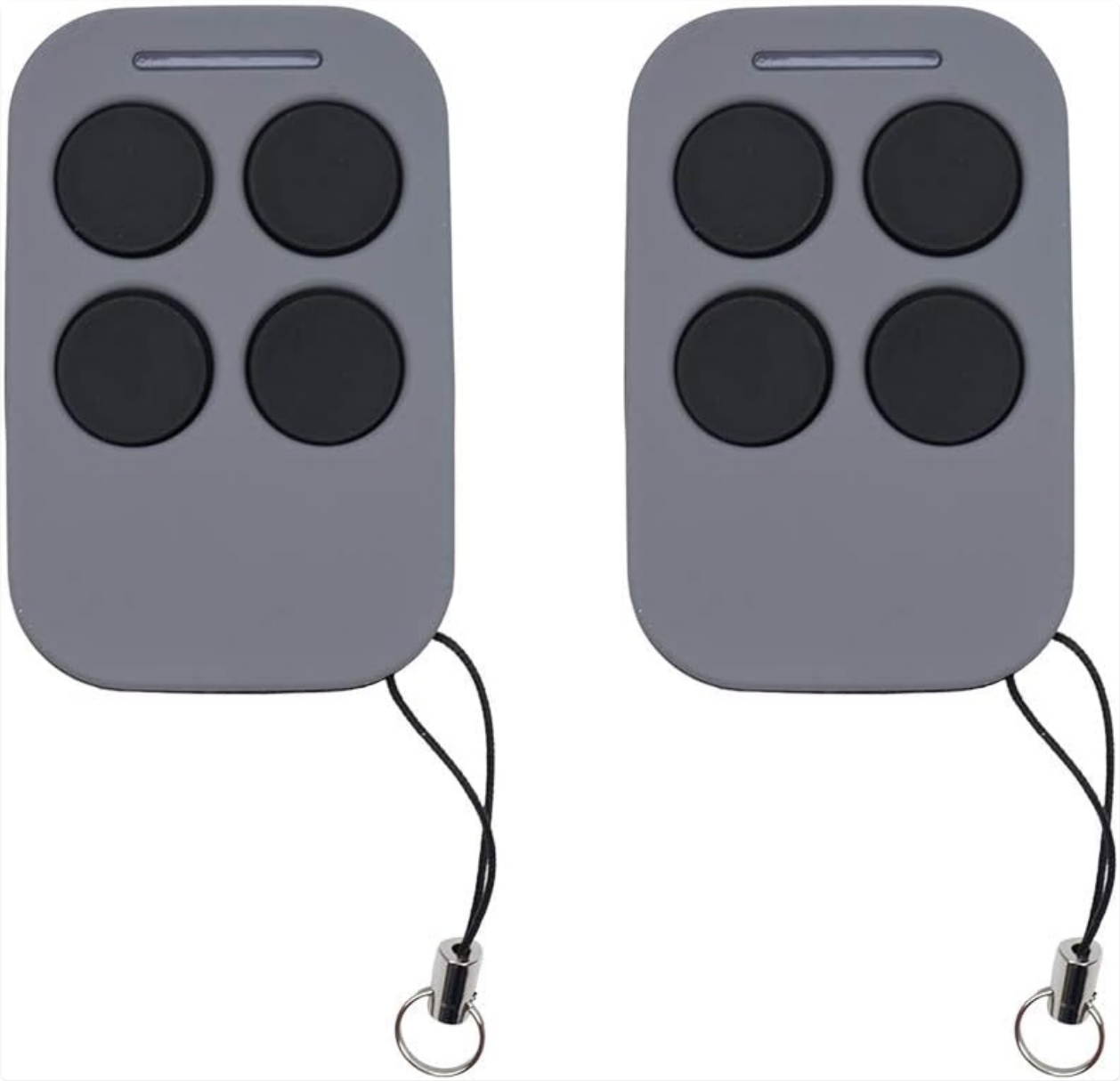


Image: The two remote controls for operating the gate.

3. SPECIFICATIONS

Feature	Value
Motor Power	2 x 40W
Max Gate Weight	200 kg
Max Gate Length	2.5 meters (per leaf)
Motor Rotation Speed	200 rpm
Piston Extension	Maximum 300 mm
Material	Alloy Steel, Metal
Product Dimensions	10.24 x 7.09 x 3.15 inches (Control Box)
Item Weight	29.7 pounds

4. SETUP & INSTALLATION

Proper installation is crucial for the safe and reliable operation of your gate automation kit. Refer to the detailed video guide for visual assistance.

Your browser does not support the video tag.

Video: Detailed assembly and installation guide for the PNI MAB300 gate automation kit. This video demonstrates mechanical mounting, electrical connections, and programming steps.

4.1. Mechanical Installation

Ensure the gate structure is sturdy and capable of supporting the motors. The motors are designed for swing gates with a maximum length of 2.5 meters per leaf and a maximum weight of 200 kg per leaf. Follow the provided diagram and measurements for precise mounting of the motors and brackets to the gate and pillars.



Image: Close-up of the mounting brackets.

4.2. Electrical Connections

Connect the motors, photocells, and warning lamp to the control unit according to the wiring diagram in the video. Ensure all connections are secure and properly insulated. The control unit requires a stable power supply.



Image: The control unit housing.

4.3. Programming the Control Unit and Remotes

Follow the steps outlined in the video to program the control unit and pair the remote controls. This involves setting parameters for gate opening/closing, auto-close timers, and obstacle detection sensitivity. The control unit supports connection of additional access control devices such as electromagnetic locks, access buttons, or keypads.

5. OPERATING INSTRUCTIONS

Once installed and programmed, the gate automation kit can be operated using the remote controls. The system offers flexible operation modes:

- **Remote Control Operation:** Press the designated button on the remote control to open or close the gate.
- **Automatic Closing:** The system can be configured to automatically close the gates after a set period.
- **Simultaneous or Sequential Opening/Closing:** Gates can open or close simultaneously or with a maximum difference of 10 seconds. It is also possible to open only one gate leaf.
- **Obstacle Detection:** The system is equipped with photocells that detect obstacles during opening or closing, causing the gates to stop to prevent damage or injury.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your PNI MAB300 kit:

- **Cleanliness:** Keep the motors, photocells, and control unit free from dirt, debris, and moisture.
- **Lubrication:** Periodically lubricate moving parts of the motors as recommended by the manufacturer.
- **Check Connections:** Regularly inspect all electrical connections for tightness and signs of wear.

- **Photocell Alignment:** Ensure photocells are clean and properly aligned for effective obstacle detection.
- **Gate Condition:** Verify that the gate itself is in good working order, with no binding or excessive friction.

7. TROUBLESHOOTING

If you encounter issues with your PNI MAB300 kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Gate does not respond to remote	Dead remote battery, remote not paired, power supply issue	Replace remote battery, re-pair remote (refer to programming section), check power connection to control unit.
Gate stops unexpectedly	Obstacle detected by photocells, motor overload	Clear any obstacles, clean and align photocells, check gate for binding.
Gate opens/closes partially	Incorrect limit switch settings, motor issue	Adjust limit switch settings (refer to programming section), inspect motors for damage.
Warning lamp not working	Faulty bulb, loose connection	Check bulb and replace if necessary, verify wiring to control unit.

If problems persist after attempting these solutions, contact qualified technical support.

8. WARRANTY & SUPPORT

The PNI MAB300 Swing Gate Automation Kit comes with a manufacturer's warranty covering defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and conditions.

For technical support, service, or spare parts, please contact your retailer or the PNI customer service department. Ensure you have your product model number (MAB300) and proof of purchase available when contacting support.