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> iMeshbean 550W 3300LBS Automatic Sliding Gate Opener User Manual

iMeshbean 09553

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Model: 09553

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your iMeshbean 550W 3300LBS Automatic Sliding Gate Opener. This system is designed to automate sliding gates weighing up to 3300 lbs and up to 40 feet in length, offering convenience and enhanced security. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INSTRUCTIONS

Always prioritize safety during installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- Ensure all power is disconnected before performing any installation, maintenance, or repair work.
- Keep hands, feet, and clothing clear of the gate and opener mechanism during operation.
- Do not allow children to play with or operate the gate opener controls.
- Regularly inspect the gate and opener for signs of wear, damage, or misalignment.
- The motor is equipped with a temperature protector that automatically cuts power if the temperature becomes too high.
- Motor time protection is set to a default of 90 minutes to prevent prolonged operation in case of a fault. This time is adjustable.
- Ensure infrared sensors are correctly installed and functioning to detect obstructions.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1 x Sliding Gate Opener Unit
- 1 x Wireless Keyboard

- 2 x Infrared Sensors
- 2 x Manual Release Keys
- 4 x Remote Controls
- 1 x 20 ft of Chain (can be split into 2 x 10 ft chains)
- Instruction Manual
- Various installation accessories (bolts, brackets, etc.)



Image 3.1: Complete package contents of the iMeshbean Automatic Sliding Gate Opener, including the main unit, remote controls, wireless keypad, infrared sensors, manual release keys, and chain.

4. SPECIFICATIONS

Manufacturer	Newgate
Product Dimensions	19 x 13 x 10 inches
Item Model Number	09553

Power/Capacity	550W, 3300LBS (for gates up to 40 feet)
Color	Silver
Motor Type	Pure Copper Motor
Operating Temperature	-4°F to +122°F
Noise Level	<56 dB

550W 1HP POWERFUL PURE COPPER MOTOR

Can drive gates up to 3300lbs



POWER: 550W

Starts smoothly at a speed of 8"/second



Low Noise
<56 dB



Working Temp
-4°F~+122°F



Over-heat
Protector



Over-load
Protector

Image 4.1: Detailed view of the 550W pure copper motor, highlighting its power and protective features.

5. INSTALLATION GUIDE

The iMeshbean gate opener is designed for straightforward installation without requiring specialized electrical or welding skills. However, basic mechanical and electrical knowledge is recommended.

5.1 Mounting the Opener Unit

1. Choose a stable, level location near the gate, ensuring sufficient clearance for the gate's movement.
2. Securely mount the opener unit to a concrete pad or sturdy post using appropriate hardware. The unit should be positioned so its drive sprocket aligns with the gate's chain path.

5.2 Installing the Chain

1. Attach the provided chain securely to both ends of the sliding gate.
2. Route the chain through the opener unit's drive sprocket, ensuring it is taut but not overly tight. Adjust chain tension as needed.

5.3 Wiring

1. Connect the power supply to the opener unit according to local electrical codes and the wiring diagram in the full instruction manual.
2. Ensure all connections are secure and properly insulated.

5.4 Infrared Sensor Installation

1. Mount the two infrared sensors on opposite sides of the gate opening, ensuring they face each other directly.
2. Connect the sensors to the opener unit as per the wiring diagram. These sensors provide obstruction detection, stopping the gate if the beam is broken.

SMART OBSTRUCTION DETECTION



Image 5.1: Illustration of smart obstruction detection using infrared sensors to prevent accidents.

6. OPERATION

The iMeshbean gate opener offers multiple control methods for convenience and flexibility.

6.1 Remote Control Operation

1. **Pairing Remotes:** Follow the instructions in the full manual to pair the 4-button remote controls with the opener unit.
2. **Opening/Closing:** Press the designated button on the remote control to open or close the gate. The remotes have a range of up to 100 feet.

4PCS REMOTE CONTROLS

Can open doors but no need to get off your car ,max 100ft



Image 6.1: Operating the gate with one of the four included remote controls.

6.2 APP Control Setup and Use

1. **Download App:** Download the dedicated control application to your smartphone (Android or iPhone).
2. **Connect to Wi-Fi:** Follow the in-app instructions to connect the gate opener to your Wi-Fi network.
3. **Remote Operation:** Once connected, you can control the gate from anywhere with internet access on your device.
4. **Schedule Timer:** The app allows you to set scheduled opening and closing times for the gate.

APP CONTROL

Open gates by your phone as long as internet is available on your device.



Image 6.2: Controlling the gate opener via the smartphone application.

6.3 Wireless Keypad Operation

Use the wireless keypad to enter a pre-programmed code to open or close the gate. Refer to the full manual for keypad programming instructions.

6.4 Manual Release Function

In case of a power outage or if remote controls are lost, use the provided manual release keys to disengage the motor and operate the gate manually. Insert the key into the lock and turn to release the clutch.

OUT OF POWER PROTECTION

Comes with 2 manual release keys in case of power outage or when you lose your remote.



Image 6.3: Manual release mechanism for operating the gate during power failure.

6.5 Automatic Closing Feature

The gate opener features an adjustable automatic closing function. You can set the delay time (1-250 minutes) after which the gate will automatically close after opening. This feature can be configured via the control panel or the mobile application.

6.6 Obstruction Detection

The system includes smart obstruction detection. If the infrared sensors detect an object or person in the gate's path, the gate will stop or reverse to prevent impact.



Image 6.4: The chain drive system ensuring smooth and reliable gate operation.

7. MAINTENANCE

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

- **Monthly:** Inspect the gate and opener for any loose bolts, worn parts, or obstructions. Clean the infrared sensor lenses.
- **Quarterly:** Lubricate the gate hinges, rollers, and chain as recommended by the gate manufacturer. Check the chain tension and adjust if necessary.
- **Annually:** Have a qualified technician inspect the entire system, including electrical connections and safety features.
- Ensure the motor's thrust is adjusted to prevent overload, protecting the motor from damage.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Trouble shooting method

A. The power indicator is off <ol style="list-style-type: none">1. There is no 110v power input<ol style="list-style-type: none">1.1. Check the output line for short circuit.2. The fuse is broken. The connector is not in place<ol style="list-style-type: none">2.2. Replace the same specification after trouble shooting (12A/250V)	F. Motor does not stop at end of run <ol style="list-style-type: none">1. Limit the damage<ol style="list-style-type: none">1.1. Replace sensor. Adjustment to single limit according to (v.2)2. The height of the magnet is not adjusted properly<ol style="list-style-type: none">2.2. Adjust the height of the magnet according to the instructions
B. Power indicator light is on, press open and close key, door body cannot be switched open and off <ol style="list-style-type: none">1. The clutch is not closed<ol style="list-style-type: none">1.1. Re-close the clutch2. Circuit board damage due to short circuit or severe overload of external devices<ol style="list-style-type: none">2.2. Back for repair	G. Motor does not work <ol style="list-style-type: none">1. No power to control board<ol style="list-style-type: none">1.1. Check if there is power input and Check if the fuse is blown2. Bad motor<ol style="list-style-type: none">2.2. Measure whether the value of the two sets of coils of the motor is the same3. Bad capacitor<ol style="list-style-type: none">3.3. Measure the value of capacitance is consistent with the value of the body.
C. By pressing the "Open" button and the "Close" button, the door will stop automatically or without reaching the limit. <ol style="list-style-type: none">1. Limit sensor cable short circuit or break or sensor away from magnet.<ol style="list-style-type: none">1.1. Check the circuit and trouble shoot, Bring the sensor to the point magnet.2. Limit the damage.<ol style="list-style-type: none">2.2. Replace sensor. Adjustment to single limit according to (v.2)	H. Resistance does not stop <ol style="list-style-type: none">1. Not set properly<ol style="list-style-type: none">1.1. 4 downward dial, turn the knob counter clockwise to minimize the test
D. Press the "on" infrared sensor light turns green, press the "off" button to stop and return to the <ol style="list-style-type: none">1. Short circuit of infrared probe line<ol style="list-style-type: none">1.1. Check the circuit and troubleshoot the probe line2. Infrared probe damaged<ol style="list-style-type: none">2.2. Replace the infrared probe	I. Remote control does not work <ol style="list-style-type: none">1. Battery installed upside down or not in good contact<ol style="list-style-type: none">1.1. Check the battery2. Not set properly<ol style="list-style-type: none">2.2. Re-set3. Cannot receive<ol style="list-style-type: none">3.3. Check whether the antenna and receiver module are damaged.
E. The remote control becomes shorter <ol style="list-style-type: none">1. Battery is low2. Interference from iron fences, walls, etc.3. Receiving antenna bending<ol style="list-style-type: none">3.1. Replace the remote-control battery 23A or 27A 12v.3.2. Minimize interference from fences, walls, etc.3.3. Antenna is straightened up as much as possible	J. Cannot connect WIFI <ol style="list-style-type: none">1. Poor 4G line number. Wrong step<ol style="list-style-type: none">1.1. Motor close to the WIFI, according to the instructions step by step connection
	K. Base shaking <ol style="list-style-type: none">1. Uneven floor without locking bolts<ol style="list-style-type: none">1.1. Flatten floor and lock bolts




Image 8.1: Visual troubleshooting chart for quick problem resolution.

Common Issues and Solutions:

1. Power Indicator Off:

- No 110V power input: Check the output line for short circuit.
- Fuse is broken: Replace with same specification (12A/250V).

2. Power Indicator On, Press Open/Close Key, Door Body Cannot Be Switched Open/Off:

- Clutch is not closed: Re-close the clutch.
- Circuit board damage due to short circuit or severe overload: Replace board.

3. Pressing Open/Close Button, Door Stops Automatically or Without Reaching Limit:

- Limit sensor cable short circuit or break, or sensor away from magnet: Check circuit and sensor, bring sensor to point magnet.
- Limit damage: Replace sensor. Adjust to single limit according to instructions.

4. Infrared Sensor Light Turns Green, Press "Off" Button to Stop and Return to the Door:

- Short circuit of infrared probe line: Check circuit and troubleshoot.
- Infrared probe damaged: Replace probe.

5. **Remote Control Becomes Shorter:**

- Battery is low: Replace remote control battery (23A or 27A 12V).
- Interference from fences, walls, etc.: Receiving antenna bending, or antenna not straightened up as much as possible.

6. **Motor Does Not Stop at End of Run:**

- Limit damage: Adjustment to single limit according to instructions.
- Height of magnet not adjusted properly: Adjust height of magnet according to instructions.

7. **Motor Does Not Work:**

- No power to control board: Check power input and fuse.
- Bad motor: Measure resistance of motor coils.
- Bad capacitor: Measure capacitance value.

8. **Resistance Does Not Stop:**

- Not set properly: Turn knob counter-clockwise to minimize test.

9. **Remote Control Does Not Work:**

- Battery installed upside down or not in good contact: Check battery.
- Cannot receive: Re-set.
- Antenna and receiver module damaged: Check for damage.

10. **Cannot Connect Wi-Fi:**

- Poor 4G line number: Wrong step.
- Motor close to Wi-Fi: Follow instructions step by step connection.

11. **Base Shaking:**

- Uneven floor without locking bolts: Flatten floor and lock bolts.

9. **WARRANTY AND SUPPORT**

The iMeshbean Automatic Sliding Gate Opener typically comes with a 6-month warranty from the date of purchase.

Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact iMeshbean customer service through the retailer where the product was purchased or visit the official iMeshbean website for contact information.

