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LIAMOS AM56-L250N-400mm

User Manual

LIAMOS AM56-L250N-400mm Electric Chain Window Opener

Model: AM56-L250N-400mm

Product Overview

The LIAMOS AM56-L250N-400mm is an electric chain-type window opener designed for automated window operation. This motorized unit provides reliable and smooth opening and closing actions for various window types, including sliding doors. It features a robust design for lasting service and ease of installation.

Key Features:

- **Wide Voltage Input:** AC100 ~ 240V, compatible with various national voltage standards.
- **Adjustable Stroke:** Selectable strokes via a knob switch, with a maximum reach of 400mm.
- **Window Compatibility:** Suitable for windows with a minimum width of 470mm.
- **Durability:** Engineered for over 10,000 opening and closing cycles.
- **Chain Design:** Double-layer stainless steel metal chain for stable and smooth operation.
- **Robust Casing:** Sandblasted aluminum profile shell with zinc alloy end caps and mounting bracket.
- **Internal Structure:** Fixed by fire-rated ABS seats with a POM guide rail for enhanced safety and quiet operation.
- **Easy Installation:** Designed for simple installation and disassembly.

Product Components

Familiarize yourself with the main components of the window opener before installation.

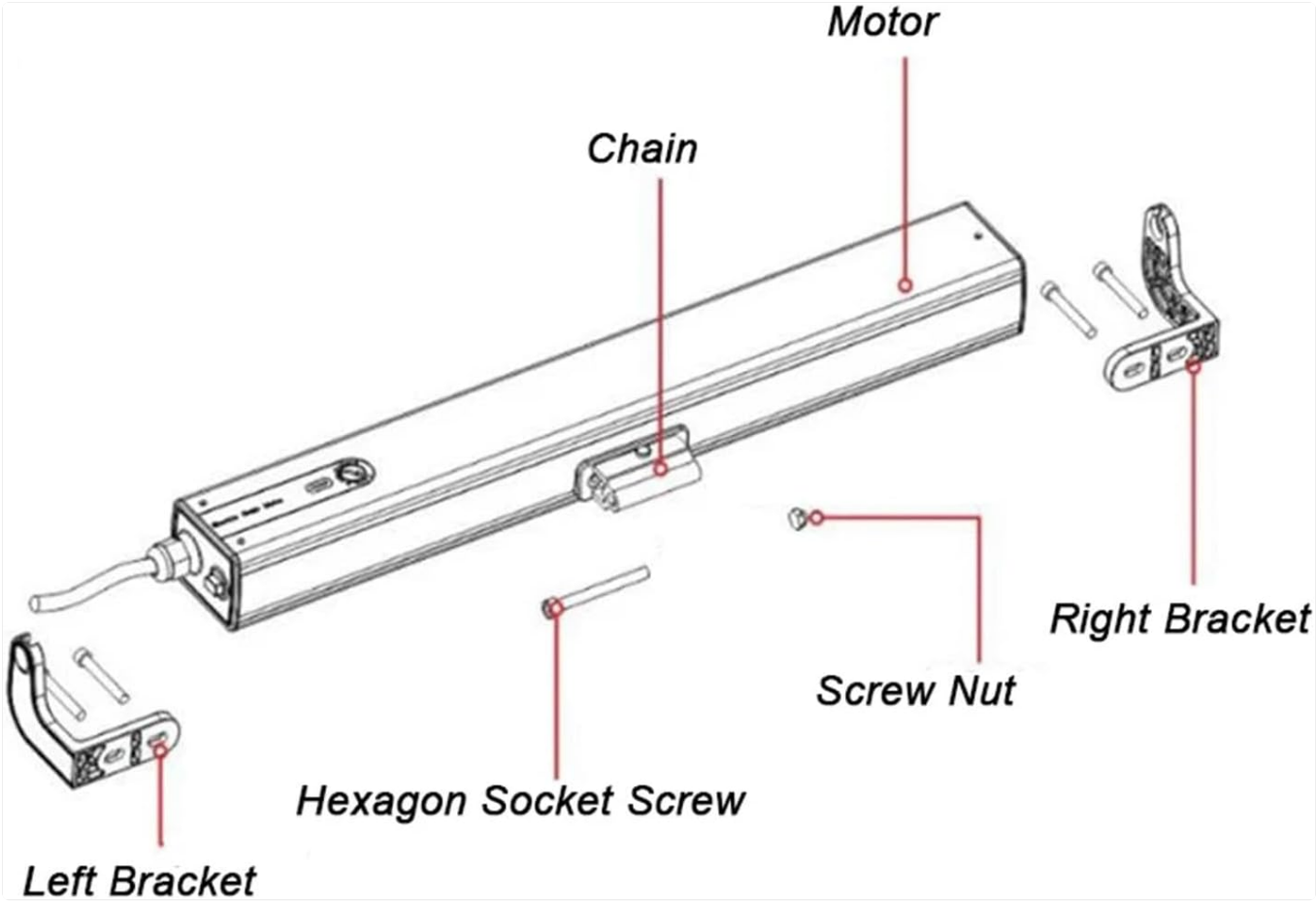


Figure 1: Exploded View of Components. This image displays the individual parts of the electric window opener, including the motor unit, chain, left bracket, right bracket, hexagon socket screw, and screw nut. Understanding these components is crucial for proper assembly and installation.

- **Motor Unit:** The main body containing the electric motor and chain mechanism.
- **Chain:** The double-layer stainless steel chain that extends and retracts to open and close the window.
- **Left Bracket:** Used for mounting the left side of the motor unit to the window frame.
- **Right Bracket:** Used for mounting the right side of the motor unit to the window frame.
- **Hexagon Socket Screw:** Fasteners used for securing components.
- **Screw Nut:** Used in conjunction with screws for secure fastening.

Specifications

Specification	Value
Model	AM56-L250N-400mm
Input Voltage	AC100 ~ 240V
Maximum Stroke	400mm
Minimum Window Width	470mm
Life Cycle	≥ 10,000 opening and closing actions
Chain Material	Double-layer stainless steel
Shell Material	Sandblasted aluminum profile

Specification	Value
End Caps & Bracket Material	Zinc alloy precision die castings
Internal Guide Rail Material	POM
Item Weight	10 Grams (Note: This weight seems unusually low for a motor. Please verify with product packaging.)
Assembly Required	No (Note: This refers to the motor unit itself, not the installation to the window.)

Installation Guide

Follow these steps carefully for proper installation of your electric window opener. Ensure all power is disconnected before beginning installation.

1. Installation Diagram Overview

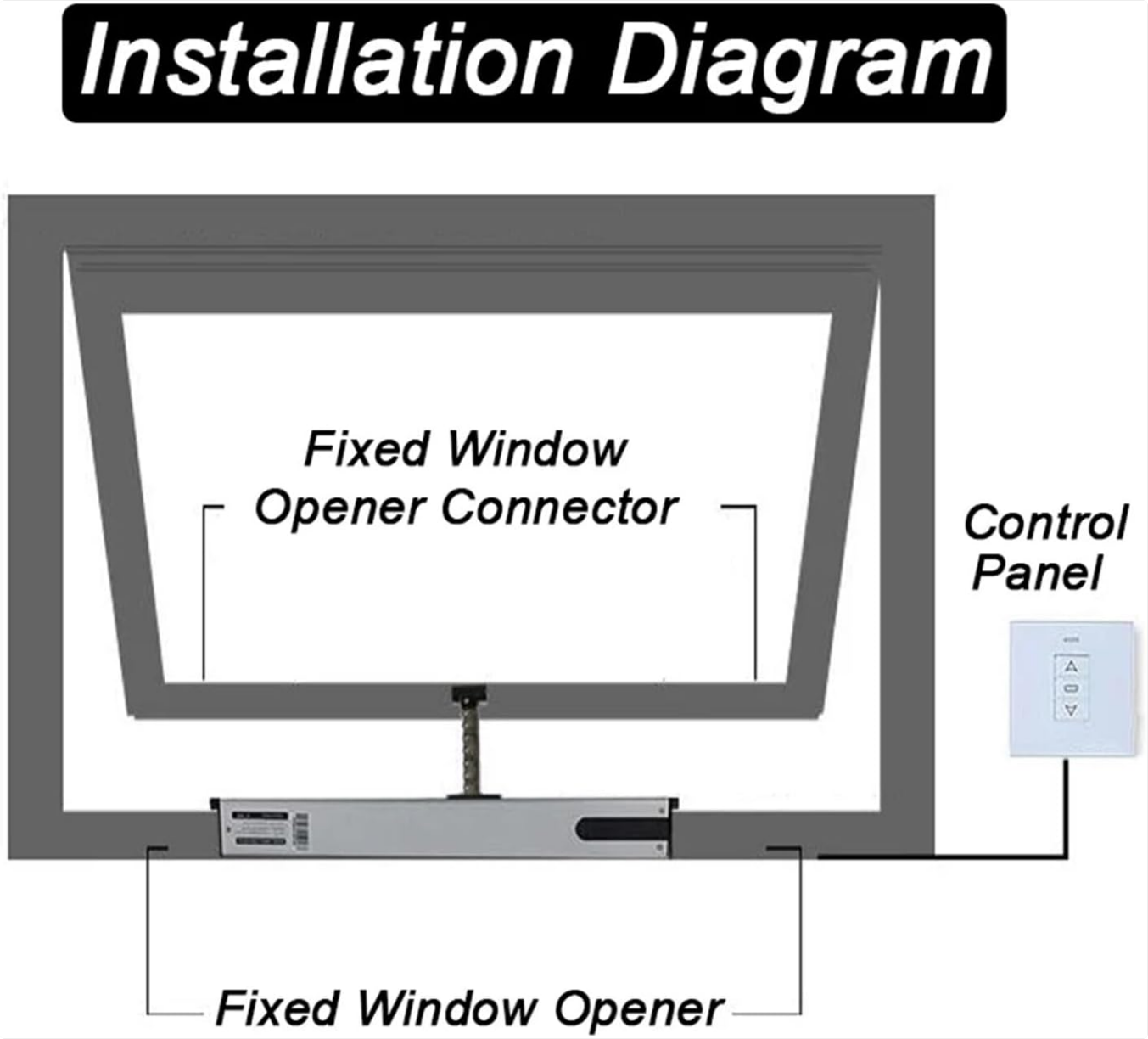


Figure 2: Installation Diagram. This diagram illustrates the general setup, showing the fixed window opener, the fixed window opener connector, and the connection to a control panel. The opener is typically mounted at the bottom of the window sash.

2. Suitable Window Types

The AM56-L250N-400mm opener is versatile and compatible with various window configurations. Ensure your window type matches one of the suitable designs shown below.



Figure 3: Suitable Window Types. This image displays several window styles compatible with the electric opener, including top-hung, bottom-hung, side-hung, and pivot windows. The opener's design allows for flexible application across these common window types.

3. Step-by-Step Installation

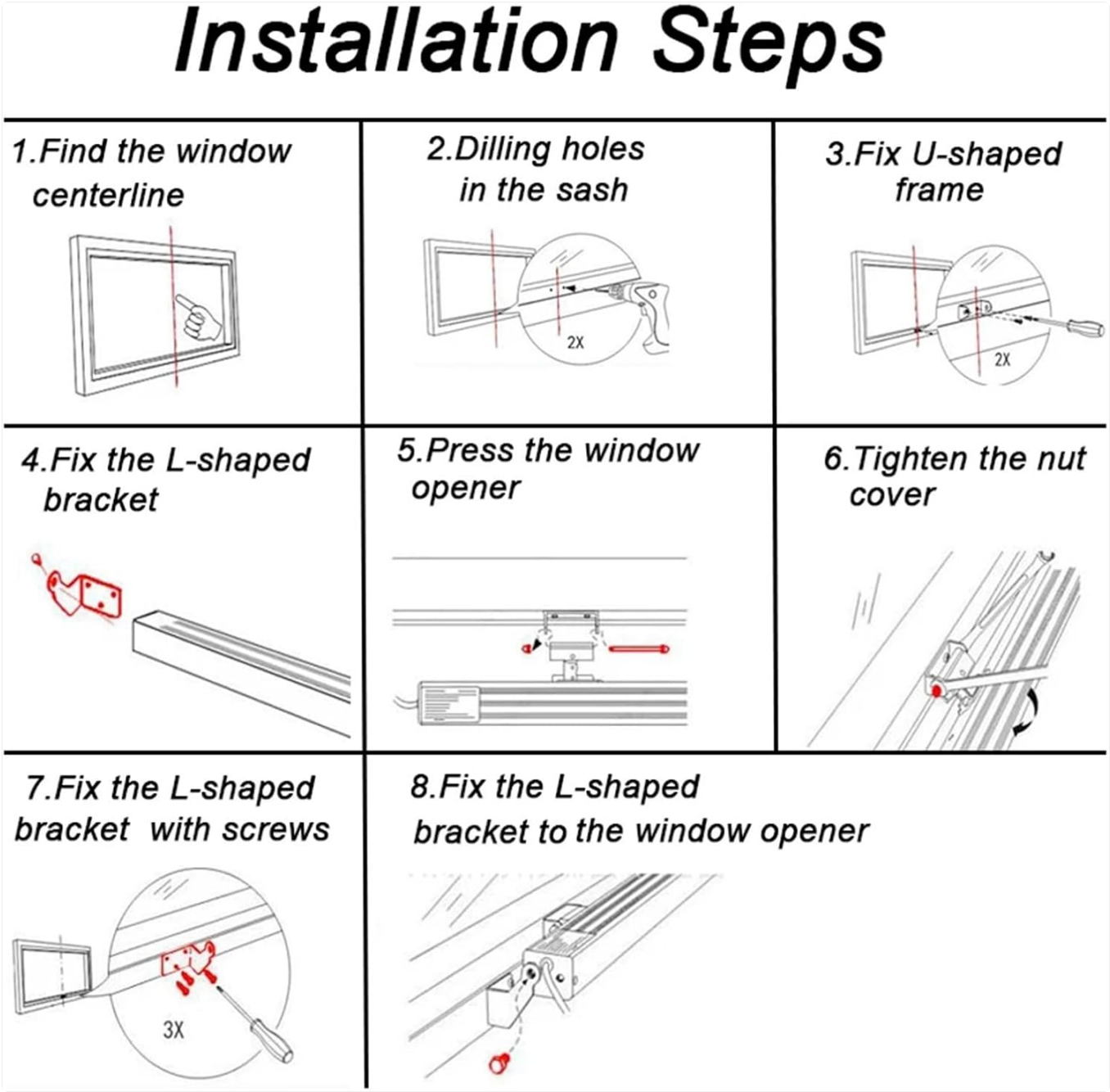


Figure 4: Installation Steps. This visual guide outlines the eight key steps for installing the window opener, from finding the window centerline to securing the L-shaped bracket to the opener.

1. **Find the Window Centerline:** Accurately locate and mark the centerline of your window sash. This ensures symmetrical placement of the opener.
2. **Drill Holes in the Sash:** Based on the mounting bracket dimensions, drill the necessary holes in the window sash. Ensure precise measurements to avoid misalignment.
3. **Fix U-shaped Frame:** Secure the U-shaped frame (if applicable, or the main mounting bracket) to the window frame using appropriate fasteners.
4. **Fix the L-shaped Bracket:** Attach the L-shaped bracket to the window opener unit.
5. **Press the Window Opener:** Carefully position the window opener unit onto the pre-installed U-shaped frame or main mounting bracket.
6. **Tighten the Nut Cover:** Secure any nut covers or protective caps to ensure all connections are protected.
7. **Fix the L-shaped Bracket with Screws:** Use screws to firmly attach the L-shaped bracket to the window sash, ensuring a secure connection.
8. **Fix the L-shaped Bracket to the Window Opener:** Ensure the L-shaped bracket is securely connected to the window opener unit, completing the mechanical installation.

After mechanical installation, proceed with electrical wiring according to local electrical codes and the provided wiring diagram (if available separately). The unit requires a 4-wire connection.

Operating Instructions

The AM56-L250N-400mm electric window opener is designed for straightforward operation, typically controlled via an external switch or control panel (not included with the opener itself).

1. **Power Connection:** Ensure the unit is correctly wired to a compatible AC100-240V power source and a control switch.
2. **Opening the Window:** Activate the control switch to the "Open" position. The chain will extend, pushing the window open.
3. **Closing the Window:** Activate the control switch to the "Close" position. The chain will retract, pulling the window shut.
4. **Adjusting Stroke:** If your model features an adjustable stroke knob switch (as mentioned in features), you can set the desired maximum opening distance. Refer to the specific instructions for your control panel for detailed adjustment procedures.
5. **Safety:** Always ensure the path of the window is clear during operation to prevent obstruction or injury.



Figure 5: Window Opener Unit. This image shows a close-up of the electric window opener, highlighting its sleek design and the integrated power cable. The adjustment knob for stroke length may be located on one of the ends or sides of the unit.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your electric window opener.

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, damp cloth. Avoid using harsh chemicals or abrasive

cleaners.

- **Chain Inspection:** Inspect the stainless steel chain for any signs of wear, corrosion, or damage. Ensure it moves freely without obstruction.
- **Lubrication:** Lightly lubricate the chain and moving parts with a silicone-based lubricant annually, or as needed, to ensure smooth operation. Avoid over-lubrication.
- **Mounting Check:** Periodically check all mounting screws and brackets to ensure they are tight and secure. Re-tighten if necessary.
- **Electrical Connections:** Ensure all electrical connections are secure and free from damage. If you notice any frayed wires or loose connections, consult a qualified electrician.
- **Obstruction Removal:** Keep the window path clear of any debris or obstructions that could hinder the opener's operation.

Troubleshooting

If you encounter issues with your window opener, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Opener does not respond to control.	No power; loose wiring; faulty control switch.	Check power supply; inspect all wiring connections; test or replace control switch.
Window opens/closes partially.	Obstruction; stroke setting incorrect; motor issue.	Remove any obstructions; verify stroke setting via knob switch; if problem persists, contact support.
Unusual noise during operation.	Lack of lubrication; foreign object in chain mechanism; worn parts.	Lubricate chain and moving parts; inspect for and remove foreign objects; if noise continues, contact support.
Window opener is stuck.	Mechanical obstruction; motor overload; power surge.	Check for and clear obstructions; disconnect power for 5 minutes and retry; if problem persists, contact support.

Warning: *Do not attempt to repair electrical components unless you are a qualified professional. Always disconnect power before inspecting or working on the unit.*

Warranty and Support

This product is manufactured to high-quality standards. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims.

For technical assistance, troubleshooting beyond this guide, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the product packaging or your purchase documentation for contact information.

When contacting support, please have the following information ready:

- Product Model: **AM56-L250N-400mm**
- Date of Purchase
- Description of the issue

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