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RANRAO 1

RANRAO Model 1 Aluminum Alloy Spring Door Latch Instruction Manual

Brand: RANRAO | Model: 1

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your RANRAO Model 1 Aluminum Alloy Spring Door Latch. Designed for enhanced security, this automatic spring bolt is suitable for various applications including doors, gates, windows, and cabinets. Please read these instructions carefully before installation and use.



Figure 1: Main view of the RANRAO Aluminum Alloy Spring Door Latch. This image shows the complete latch assembly in its closed position, highlighting its white finish and robust construction.

2. KEY FEATURES

- **High-Quality Material:** Constructed from solid aluminum alloy, ensuring high hardness, strength, rust resistance, and no deformation. The painted surface is durable and resistant to peeling.
- **Enhanced Security:** Despite its compact size, the latch offers high hardness and stability. Equipped with an internal spring mechanism, it prevents accidental opening, providing reliable security and privacy.
- **Internal Spring Design:** Features a spring-loaded bolt with a circular pull ring for convenient operation. The thick base and integrated molding contribute to its stability. The smooth surface is designed to prevent hand injuries during use.
- **Easy Installation:** Designed for straightforward installation with included screws. Can be mounted in minutes by aligning the bolt with the door and frame, then securing with screws.
- **Versatile Application:** Ideal for securing small doors, windows, fences, yard gates, office drawers, cabinets,

toolboxes, cage doors, shed doors, lockers, and kitchen cabinets. Its white finish complements most furniture and decor.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 1 x RANRAO Aluminum Alloy Spring Door Latch (White)
- 4 x Mounting Screws



Figure 2: Components included in the package. This image displays the main latch unit alongside the four mounting screws, demonstrating what is provided for installation.

4. SPECIFICATIONS

Attribute	Detail
Brand	RANRAO

Attribute	Detail
Model Number	1
Material	Aluminum Alloy
Color	White
Dimensions (L x W x H)	Approximately 13 x 10 x 3.4 cm
Item Weight	Approximately 30 grams
Features	Rust-resistant, Automatic Spring Mechanism

5. INSTALLATION INSTRUCTIONS

Follow these steps to properly install your RANRAO Spring Door Latch:

- 1. Prepare the Surface:** Ensure the mounting surface on both the door/window and the frame is clean, dry, and flat.
- 2. Position the Latch Body:** Place the main body of the latch (the part with the spring bolt) on the door or window frame where you intend to install it. Ensure it is aligned correctly with the edge of the door/window.
- 3. Mark Screw Holes (Latch Body):** Using a pencil, mark the positions of the screw holes on the latch body onto the mounting surface.
- 4. Attach Latch Body:** Drill pilot holes if necessary (recommended for wood to prevent splitting). Secure the latch body using two of the provided screws.
- 5. Position the Catch Plate:** Close the door or window. Align the catch plate (the smaller component that receives the bolt) with the latch body so that the spring bolt can easily slide into it when engaged.
- 6. Mark Screw Holes (Catch Plate):** Mark the positions of the screw holes on the catch plate onto the door or window.
- 7. Attach Catch Plate:** Drill pilot holes if necessary. Secure the catch plate using the remaining two screws.
- 8. Test Operation:** Open and close the door/window and engage the latch to ensure smooth operation and secure locking. Adjust if necessary.



Figure 3: Dimensional diagram of the latch components. This image provides a visual reference for the size and shape of the latch and its separate catch plate, which is helpful during the installation process.



Figure 4: Example of the latch installed on a door. This image illustrates how the latch appears when mounted, showing the main body on the frame and the catch plate on the door, ready for engagement.

6. OPERATING INSTRUCTIONS

The RANRAO Spring Door Latch is designed for simple and reliable operation:

- **To Lock:** Close the door or window. The spring-loaded bolt will automatically extend into the catch plate, securing the door. If it does not engage automatically, gently push the door until the bolt slides into the catch.

- **To Unlock:** Pull the circular ring on the latch body upwards. This retracts the spring bolt, allowing the door or window to open. Release the ring to allow the bolt to extend again.



Figure 5: Latch in the unlocked position. This image shows the circular pull ring lifted, indicating the bolt is retracted and the latch is disengaged, allowing the door to open.

7. MAINTENANCE

To ensure the longevity and optimal performance of your door latch, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the latch periodically with a soft, damp cloth to remove dust and dirt. Avoid abrasive cleaners or solvents that could damage the painted finish.
- **Lubrication:** If the spring mechanism or bolt movement becomes stiff, apply a small amount of silicone-based lubricant to the moving parts. Do not over-lubricate.
- **Check Screws:** Periodically check that all mounting screws are tight. Tighten any loose screws to maintain secure installation.
- **Inspect for Damage:** Regularly inspect the latch for any signs of wear, damage, or corrosion. If significant damage is observed, consider replacing the unit to ensure continued security.

8. TROUBLESHOOTING

If you encounter issues with your RANRAO Spring Door Latch, refer to the following common problems and solutions:

- **Latch does not engage automatically:**
 - Ensure the door/window is fully closed and aligned with the frame.
 - Check if the catch plate is correctly aligned with the bolt. Adjust its position if necessary.
 - Clean any debris or obstruction from the bolt and catch plate area.
 - Apply lubricant to the spring mechanism if it feels stiff.
- **Latch is difficult to unlock:**
 - Apply a small amount of lubricant to the pull ring mechanism and the bolt.
 - Ensure there is no physical obstruction preventing the pull ring from moving freely.

- **Latch feels loose after installation:**

- Check and tighten all mounting screws.
- Ensure the mounting surface is solid and not deteriorating.

9. WARRANTY AND SUPPORT

RANRAO products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the retailer where the product was purchased or visit the official RANRAO website. Keep your purchase receipt as proof of purchase.

Note: Information regarding spare parts availability is currently unavailable.

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Related Documents - 1

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[Alfred DB1 Pro Installation Guide for Doors with 1-1/2 Inch Holes](#)

Step-by-step instructions for installing the Alfred DB1 Pro door lock on doors with 1-1/2 inch (38mm) holes, including preparation, tool requirements, and installation procedures.