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› [Winkhaus GRM 1793831 Window Gear Replacement Part for GPM with ToniTec Autopilot Maintenance Manual \(Size 1300/1, FFH 800-1300 mm\)](#)

Winkhaus GRM 1793831 (Size 1300/1, FFH 800-1300 mm)

Winkhaus GRM 1793831 Window Gear Instruction Manual

Model: GRM 1793831 (Size 1300/1, FFH 800-1300 mm)

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Winkhaus GRM 1793831 Window Gear. This product is an original replacement part designed for GPM systems in both wood and plastic windows. Please read these instructions carefully before proceeding with installation or use to ensure proper function and longevity of the product.

2. PRODUCT OVERVIEW

The Winkhaus GRM 1793831 is a high-quality window gear mechanism, crucial for the secure and smooth operation of your window. It features a clear galvanized (silver) finish for durability and corrosion resistance. This gear is specifically sized for windows with a sash rebate height (FFH) between 800-1300 mm.



Figure 1: This image displays the central mechanism of the Winkhaus GRM 1793831 window gear, showing the drive spindle and connection points for the locking rods. This component is crucial for the window's opening and closing functions.



Figure 2: This image presents the complete Winkhaus GRM 1793831 gear rail, highlighting its elongated design and the various attachment points along its length. The rail is designed to integrate seamlessly into window frames for secure operation.

An official ToniTec Autopilot maintenance manual is included to assist with the long-term care of your window system.



Figure 3: This image shows the cover of the ToniTec maintenance manual for Winkhaus activPilot systems, which is included with the GRM 1793831 gear. It provides detailed instructions for care and upkeep.

3. SETUP AND INSTALLATION

Installation of window gear mechanisms requires precision. If you are unsure about any step, it is recommended to

consult a qualified professional.

3.1 Safety Precautions

- Always wear appropriate personal protective equipment, such as safety glasses.
- Ensure the window sash is securely supported during removal and installation to prevent accidental falls.
- Disconnect any electrical components if working near automated window systems.

3.2 Tools Required

- Screwdriver set (Phillips and flathead)
- Measuring tape
- Pencil or marker
- Pliers (optional, for stubborn screws)

3.3 Installation Steps

1. **Remove Old Gear:** Carefully remove the existing window gear mechanism. Note the position and orientation of all components.
2. **Measure and Verify:** Compare the new Winkhaus GRM 1793831 gear with the old one to ensure it is the correct replacement part. Verify the sash rebate height (FFH) is within the 800-1300 mm range.
3. **Position New Gear:** Place the new gear into the designated channel within the window sash. Ensure it sits flush and aligns correctly with all connection points.
4. **Secure Gear:** Fasten the gear using appropriate screws. Do not overtighten.
5. **Connect Rods:** Attach any connecting rods or extensions to the gear mechanism as per the original configuration.
6. **Test Operation:** Before fully closing the window, test the gear's function by operating the window handle. Ensure smooth movement and proper engagement of all locking points. Adjust if necessary.

4. OPERATING INSTRUCTIONS

The Winkhaus GRM 1793831 window gear facilitates the opening, closing, and locking of your window via the window handle. The operation is standard for most modern window systems:

- **Closed/Locked Position:** When the handle is in the downward position, the window is closed and locked.
- **Tilted Position (if applicable):** Turning the handle to a horizontal position (90 degrees) typically allows the window to tilt inwards for ventilation.
- **Open Position:** Turning the handle upwards (180 degrees) allows the window to fully open inwards.

Always operate the handle smoothly and without excessive force. If the handle feels stiff, do not force it, as this may damage the gear or other window components.

5. MAINTENANCE

Regular maintenance ensures the long-term functionality and security of your window gear. Refer to the included ToniTec Autopilot maintenance manual for detailed instructions specific to Winkhaus activPilot systems.

5.1 General Maintenance Tips

- **Cleaning:** Periodically clean the visible parts of the gear and the window frame channels to remove dust and debris. Use a soft cloth and mild cleaning agents.
- **Lubrication:** Lubricate all moving parts, such as hinges, locking points, and the gear mechanism, at least once

a year. Use a non-resin-forming oil or a specialized window hardware lubricant. Avoid using grease or oils that can attract dirt.

- **Inspection:** Regularly inspect the gear and other window hardware for signs of wear, damage, or loose screws. Tighten any loose screws immediately.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Window difficult to open or close	Lack of lubrication, debris in mechanism, misalignment of sash	Clean and lubricate all moving parts. Check for obstructions. Adjust window sash alignment if necessary.
Window handle is stiff or hard to turn	Lack of lubrication, bent component, internal gear issue	Apply lubricant to the handle mechanism and gear. Inspect for bent or damaged parts. If the problem persists, professional inspection may be required.
Window does not seal properly when closed	Misalignment of locking points, worn gaskets, sash sag	Check alignment of locking points and adjust if possible. Inspect gaskets for wear and replace if needed. Address sash sag if present.
Window makes grinding noises	Debris in gear, lack of lubrication, damaged components	Clean the gear mechanism thoroughly. Lubricate all moving parts. If noise persists, inspect for damaged internal components.

For issues not listed here or if solutions do not resolve the problem, please contact a qualified window technician or the product supplier.

7. SPECIFICATIONS

Feature	Detail
Manufacturer	Winkhaus
Model Number	GRM 1793831
Size	1300/1 (FFH 800-1300 mm)
Material	Clear galvanized (silver)
Application	Wood and plastic windows
Batteries Required	No
ASIN	B07N1RM4ZC

8. WARRANTY AND SUPPORT

Warranty information for the Winkhaus GRM 1793831 window gear is typically provided by the manufacturer or the seller at the time of purchase. Please retain your proof of purchase for any warranty claims.

For technical support, spare parts availability, or further assistance, please contact your original point of purchase or

refer to the contact information provided in the included ToniTec maintenance manual. You may also visit the official Winkhaus website for general product information.

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