

Aexit B2970

Aexit B2970 Rubber Transmission Driving V-Belt User Manual

Model: B2970 | Brand: Aexit

1. INTRODUCTION

This user manual provides essential information for the proper handling, installation, operation, and maintenance of the Aexit B2970 Rubber Transmission Driving V-Belt. Adhering to these guidelines will help ensure optimal performance, extend product lifespan, and maintain safety. Please read this manual thoroughly before using the product.

Safety Precautions

- Always ensure power is disconnected from machinery before installing or maintaining V-belts.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Avoid touching moving belts or pulleys during operation.
- Ensure proper tensioning to prevent slippage or excessive stress on components.

2. PRODUCT OVERVIEW

The Aexit B2970 V-Belt is a robust transmission component designed for various industrial and electrical equipment applications. It is constructed from a highly engineered synthetic rubber compound, featuring a fabric wrap treated for high oil and heat resistance. The tensile cords are helically wound, specially engineered, twisted, heat, and chemically set polyester material, ensuring durability and reliable power transmission.

Key Features:

- **Material:** High-quality Rubber for durability and flexibility.
- **Dimensions:** Max. Width: 17mm / 0.67"; Thickness: 11mm / 0.43".
- **Color:** Black, suitable for various industrial aesthetics.
- **Construction:** Outside fabric wrap treated for oil and heat resistance; helically wound polyester tensile cords.



Figure 2.1: The Aexit B2970 V-Belt, shown coiled. This image illustrates the overall appearance and form factor of the transmission belt.



Figure 2.2: A close-up view of the V-belt's surface. This detail highlights the texture and quality of the rubber material and outer fabric wrap.



Figure 2.3: A detailed view of the V-belt showing the model number 'B-2970Li' printed on its surface. This confirms the product identification.

3. SPECIFICATIONS

The following table outlines the technical specifications for the Aexit B2970 V-Belt:

Specification	Value
Model	B2970
Material	Rubber
Max. Width	17mm / 0.67"
Thickness	11mm / 0.43"
Main Color	Black
Net Weight	621g
Country of Manufacture	CHINA
Manufacturer	Aexit
ASIN	B07M6WHV4D

4. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and efficiency of the V-belt. Follow these general steps for installing the Aexit B2970 V-Belt:

- Preparation:** Ensure the machinery is turned off and locked out to prevent accidental startup. Clean pulleys and shafts of any debris, oil, or rust. Inspect pulleys for wear or damage.
- Belt Removal (if replacing):** If replacing an old belt, carefully remove it. Note the orientation and path of the old belt.
- Installation:** Do not force the new belt onto the pulleys. Adjust the motor or driven component to reduce the center distance between the pulleys, allowing the belt to be placed easily without stretching or prying.
- Tensioning:** Once the belt is in place, gradually increase the center distance to apply tension. The correct tension is critical: too little tension causes slippage and wear, while too much tension can damage bearings and the belt itself. Refer to your equipment's specific tensioning guidelines or use a belt tension gauge. A general rule of thumb is that the belt should deflect approximately 1/64 inch per inch of span length when moderate force is applied.
- Alignment:** Ensure that the pulleys are properly aligned. Misalignment can lead to uneven belt wear, noise, and premature failure. Use a straight edge or laser alignment tool for precision.
- Initial Run-in:** After installation, run the machinery for a short period (e.g., 30 minutes to a few hours) and then recheck the belt tension. Belts can stretch slightly during initial operation.

5. OPERATING GUIDELINES

To ensure safe and efficient operation of your V-belt driven system, consider the following:

- Load Management:** Avoid overloading the system beyond its design capacity, as this can cause excessive belt slippage and premature wear.
- Environmental Conditions:** While the Aexit B2970 V-Belt is designed with oil and heat resistance, extreme temperatures, excessive moisture, or abrasive environments can still impact its performance and lifespan. Protect the belt from direct exposure to harsh chemicals.

- **Regular Monitoring:** Periodically observe the belt during operation for any signs of slippage, unusual noise, or vibration. Address any issues promptly.

6. MAINTENANCE

Regular maintenance extends the life of your V-belt and ensures reliable operation:

- **Inspection:** Regularly inspect the belt for signs of wear, cracks, fraying, glazing, or hardening. Check for foreign objects lodged in the grooves.
- **Tension Check:** Periodically check and adjust belt tension. Loose belts slip and wear quickly, while overly tight belts stress bearings and the belt itself.
- **Cleaning:** Keep belts and pulleys clean. Remove any oil, grease, or dirt that can cause slippage and accelerate wear. Use a clean, dry cloth; avoid harsh solvents.
- **Storage:** Store spare belts in a cool, dry place away from direct sunlight and ozone-generating equipment. Do not hang belts on small pegs, as this can cause permanent deformation.
- **Replacement:** Replace belts at the first sign of significant wear or damage. It is often recommended to replace all belts in a matched set simultaneously to ensure even load distribution.

7. TROUBLESHOOTING

This section addresses common issues encountered with V-belts and their potential solutions:

Problem	Possible Cause(s)	Solution(s)
Belt Slippage	Low tension, oil/grease on belt/pulleys, worn belt/pulleys, overload.	Adjust tension, clean belt/pulleys, replace worn components, reduce load.
Excessive Noise (Squealing/Chirping)	Slippage, misalignment, worn bearings, foreign object.	Check tension, align pulleys, inspect bearings, remove obstructions.
Premature Belt Wear	Incorrect tension (too high or too low), misalignment, worn pulleys, environmental factors (heat, oil), improper installation.	Adjust tension, align pulleys, replace worn pulleys, ensure proper operating environment, reinstall correctly.
Belt Turnover/Twisting	Misalignment, worn pulley grooves, excessive vibration, shock loads.	Align pulleys, replace worn pulleys, reduce vibration, smooth out loads.

8. WARRANTY AND SUPPORT

For specific warranty information regarding the Aexit B2970 Rubber Transmission Driving V-Belt, please refer to the purchase documentation or contact the seller directly. Warranty terms typically cover manufacturing defects.

If you require technical assistance, have questions about installation, or need to report an issue, please contact the retailer from whom you purchased the product or the manufacturer, Aexit, through their official support channels. Please have your product model number (B2970) and purchase details ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question