Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

RYOBI RBDS4601G

RYOBI RBDS4601G 370W Belt and Disc Sander User Manual

Model: RBDS4601G

1. Introduction

This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your RYOBI RBDS4601G 370W Belt and Disc Sander. Please read and understand all instructions before using the tool. Keep this manual for future reference.

2. Safety Information

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the sander. Dress properly; do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Specific Sander Safety Warnings:

- Always secure the workpiece firmly before sanding.
- Ensure the sanding belt and disc are correctly installed and tensioned before operation.
- Do not sand materials containing asbestos.
- Always use the dust extraction port to connect to a suitable dust collection system.

- Never touch the sanding belt or disc while the machine is running.

3. Product Overview

The RYOBI RBDS4601G is a stationary belt and disc sander designed for precision sanding, shaping, and polishing of wood and similar materials. It features a robust cast iron base for stability and reduced vibration.



Figure 1: Overview of the RYOBI RBDS4601G Belt and Disc Sander. This image shows the main components including the belt sanding arm, disc sanding table, power switch, and dust extraction port.

Key Components:

- **Belt Sanding Arm:** Adjustable from 0° to 90° for horizontal or vertical sanding.
- **Disc Sanding Table:** Tilts from 0° to 45° for angled sanding.
- **Work Support:** Provides stability and control for workpieces.
- **Angle Guide:** Used with the tilting table for precise angle adjustments.
- **Power Switch:** On/Off control for the sander.
- **Dust Extraction Port:** For connecting a dust collection system.

4. Specifications

Feature	Specification
Model	RBDS4601G
Power	370 W
Belt Speed	439 m/min
Belt Dimensions	100 x 914 mm
Disc Speed	2850 rpm
Disc Diameter	150 mm
Table Dimensions	225 x 158 mm
Weight	18.5 kg
Voltage	350 Volts

Feature	Specification
Grain (Included)	36 (Medium)
Included Components	1 sanding belt (50 x 686 mm), 1 sanding disc (Ø 150 mm), 1 work support, 1 angle guide

5. Setup

5.1 Unpacking and Inspection

Carefully remove the sander and all accessories from the packaging. Inspect for any damage that may have occurred during transit. Ensure all listed components are present.

5.2 Installing the Sanding Belt

1. Ensure the sander is unplugged from the power source.
2. Locate the belt tension release lever.
3. Push the lever to release tension on the belt rollers.
4. Slide the old belt off (if applicable) and slide the new 100 x 914 mm sanding belt onto the rollers, ensuring the directional arrow on the belt matches the arrow on the sander.
5. Return the tension release lever to its original position to secure the belt.
6. Adjust the belt tracking knob to center the belt on the rollers.



Figure 2: Example packaging for RYOBI 100mm sanding belts. Ensure you use the correct size and grit for your application.

5.3 Installing the Sanding Disc

1. Ensure the sander is unplugged from the power source.
2. The sander uses a hook-and-loop fastening system for the disc. Peel off the old sanding disc (if applicable).
3. Align the new 150 mm diameter sanding disc with the disc plate, ensuring it is centered.
4. Press the disc firmly onto the plate to secure it.



Figure 3: Example packaging for RYOBI 150mm sanding discs. Always use discs designed for hook-and-loop systems.

5.4 Adjusting Work Support and Angle Guide

1. Attach the work support to the sander using the provided fasteners.
2. Adjust the height and distance of the work support from the sanding surface to suit your workpiece. Secure it firmly.
3. Insert the angle guide into the slot on the disc sanding table.
4. Set the desired angle for your workpiece using the angle guide's scale and lock it in place.

6. Operating Instructions

6.1 General Operation

1. Ensure the sander is placed on a stable, level surface.
2. Connect the sander to a suitable power outlet.
3. Connect a dust collection system to the dust extraction port.
4. Turn on the sander using the power switch. Allow it to reach full speed before beginning to sand.
5. Always hold the workpiece firmly against the work support and sanding surface.
6. Apply light, even pressure. Do not force the workpiece against the abrasive.
7. Move the workpiece slowly and consistently across the sanding surface for an even finish.



Figure 4: A user operating the RYOBI Belt and Disc Sander, demonstrating proper technique with safety glasses and gloves.

6.2 Belt Sanding

The belt sanding arm can be adjusted for horizontal or vertical sanding. For horizontal sanding, the arm is parallel to the workbench. For vertical sanding, the arm is perpendicular to the workbench.

- Adjust the belt sanding arm to the desired angle (0°-90°) by loosening the locking knob, positioning the arm, and then tightening the knob.
- Use the work support to guide your workpiece against the moving belt.
- Sand with the grain of the wood for best results.

6.3 Disc Sanding

The disc sanding table can be tilted to sand at various angles.

- Loosen the table locking knob and tilt the table to the desired angle (0°-45°). Use the angle scale for precision. Tighten the knob securely.
- Always sand on the downward-rotating side of the disc to prevent the workpiece from being thrown.
- Use the angle guide for precise bevels and miter cuts.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your sander.

7.1 Cleaning

- Always unplug the sander before cleaning.
- Use a brush or compressed air to remove dust and debris from the motor vents and sanding areas.
- Wipe down external surfaces with a damp cloth. Do not use harsh chemicals or solvents.
- Regularly empty the dust collection bag or system.

7.2 Replacing Consumables

- Replace sanding belts and discs when they become worn or clogged. Refer to sections 5.2 and 5.3 for replacement instructions.
- Always use genuine RYOBI replacement parts and accessories.

7.3 General Care

- Store the sander in a clean, dry place, out of reach of children.
- Periodically check all fasteners and tighten if necessary.
- Inspect the power cord for any damage. If damaged, have it replaced by a qualified technician.

8. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact RYOBI customer support.

Problem	Possible Cause	Solution
Sander does not start	No power supply Faulty power switch	Check power cord and outlet Contact service center
Excessive vibration	Loose components Unbalanced sanding disc/belt	Check and tighten all fasteners Replace sanding disc/belt
Poor sanding performance	Worn or clogged abrasive Incorrect abrasive grit	Replace sanding belt/disc Use appropriate grit for material
Belt tracking issues	Belt not centered Worn belt	Adjust belt tracking knob Replace belt

9. Warranty and Support

9.1 Warranty Information

RYOBI offers a standard **2-year warranty** on all tools and batteries. An additional **1-year warranty extension** is available if the product is registered within 30 days of the purchase date. This provides a total warranty period of **3 years**. Proof of purchase (original invoice) and registration confirmation are required for warranty claims.
Spare parts for this product are available for a period of 5 years.

9.2 Customer Support

For technical assistance, spare parts, or warranty claims, please contact your local RYOBI service center or visit the official RYOBI website for support information.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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

Open the live page

https://manuals.plus/asin/B073V5L71L

More documents and user manuals: **https://manuals.plus/**