

[manuals.plus](#) /› [WEN](#) /› [WEN HB424V 10-Amp 4x24-Inch Variable Speed Combination Belt Sander User Manual](#)

## WEN HB424V

# WEN HB424V 10-Amp 4x24-Inch Variable Speed Combination Belt Sander User Manual

Model: HB424V

## 1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your WEN HB424V 10-Amp 4x24-Inch Variable Speed Combination Belt Sander. Please read this manual thoroughly before operating the tool to ensure proper use and to prevent injury or damage. Keep this manual for future reference.

## 2. SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the tool's controls and proper usage.
- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Wear Respiratory Protection:** Use a dust mask, especially when sanding wood or other materials that produce fine dust.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during sanding.
- **Keep Work Area Clean:** Cluttered areas invite accidents.
- **Avoid Dangerous Environments:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Keep Children Away:** All visitors should be kept a safe distance from the work area.
- **Do Not Force Tool:** It will do the job better and safer at the rate for which it was designed.
- **Use Right Tool:** Do not force small tool or attachment to do the job of a heavy-duty tool.
- **Dress Properly:** Do not wear loose clothing or jewelry. Contain long hair.
- **Disconnect Tools:** Disconnect tools from power supply before servicing, when changing accessories, or when not in use.
- **Avoid Accidental Starting:** Ensure switch is off before plugging in.
- **Check for Damaged Parts:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

- **California Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 3. PACKAGE CONTENTS

---

Verify that all items are present and in good condition upon unpacking. If any parts are missing or damaged, contact WEN customer service.

- WEN HB424V Belt Sander
- Detachable Dust Bag
- 80-Grit Sanding Belts (x2)
- Rubber Mounting Pad
- Mounting Clamps (x2)
- Instruction Manual

### 4. PRODUCT FEATURES

---

The WEN HB424V belt sander is designed for versatility, offering both handheld and benchtop operation.

- **10-Amp Variable-Speed Motor:** Provides belt speeds from 660 to 1310 feet per minute for optimal material removal.
- **Combination Design:** Functions as a handheld sander or can be inverted and clamped to a workbench for stationary use.
- **Lock-On Power Switch:** Allows for continuous operation without holding the trigger, useful for benchtop applications.
- **Quick-Release Belt Tension Lever:** Facilitates fast and easy sanding belt changes.
- **Dust Collection System:** Includes a detachable dust bag and a 1.2-inch dust port (1.4-inch outer diameter) for connection to a shop vacuum.
- **Durable Construction:** Features a heavy-duty body and aluminum housing for reliability and reduced vibration.



Figure 4.1: Main view of the WEN HB424V Belt Sander, showcasing its ergonomic design and belt mechanism.

## 5. SETUP

### 5.1 Installing the Sanding Belt

1. Ensure the sander is unplugged from the power source.
2. Locate the quick-release belt tension lever on the side of the sander.
3. Push the lever to release the tension on the sanding belt.
4. Remove the old belt (if applicable) and slide the new 4x24-inch sanding belt onto the rollers, ensuring the directional arrow on the belt matches the arrow on the sander housing.
5. Return the quick-release lever to its original position to tension the new belt.
6. Manually rotate the belt a few times to ensure it is properly seated and centered.



Figure 5.1: View of the sander with the belt cover open, illustrating the process of installing or changing a sanding belt.

## 5.2 Attaching the Dust Bag

For effective dust collection, attach the included dust bag to the dust port.

1. Locate the dust port on the side of the sander.
2. Slide the opening of the dust bag firmly onto the dust port.
3. Ensure a snug fit to prevent dust leakage.
4. Alternatively, connect a shop vacuum hose (1.2-inch inner diameter, 1.4-inch outer diameter) to the dust port for enhanced dust extraction.



Figure 5.2: Close-up view of the dust port on the WEN HB424V, ready for dust bag or vacuum attachment.



Figure 5.3: Side view of the WEN HB424V Belt Sander with the dust collection bag properly attached.

### 5.3 Benchtop Setup

To use the sander in a stationary benchtop configuration:

1. Place the rubber mounting pad on a stable workbench surface.
2. Invert the sander and place it onto the rubber pad.
3. Use the two included mounting clamps to secure the sander firmly to the workbench. Ensure the clamps are tightened securely to prevent movement during operation.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off and Lock-On Feature

- To turn the sander ON, press the trigger switch.
- To turn the sander OFF, release the trigger switch.
- For continuous operation, press the trigger switch and then push the lock-on button. Release the

trigger while holding the lock-on button.

- To disengage the lock-on feature, press the trigger switch again.

## 6.2 Adjusting Variable Speed

The variable speed dial allows you to adjust the belt speed from 660 to 1310 feet per minute.

- Rotate the speed dial (typically located near the handle) to increase or decrease the belt speed.
- Lower speeds are suitable for fine finishing or heat-sensitive materials.
- Higher speeds are ideal for rapid material removal.



Figure 6.1: Close-up of the variable speed control dial on the WEN HB424V, showing speed settings.

## 6.3 Sanding Techniques

- **Handheld Operation:** Apply even, moderate pressure and move the sander smoothly across the workpiece in the direction of the wood grain. Avoid tilting the sander or applying excessive pressure, which can cause gouging or uneven sanding.
- **Benchtop Operation:** With the sander securely clamped, bring the workpiece to the moving belt. Use controlled movements to sand edges, small pieces, or for deburring. Always keep hands clear of the moving belt.
- **Dust Management:** Regularly empty the dust bag or ensure your shop vacuum is connected and functioning to minimize airborne dust and maintain a clear view of your work.



Figure 6.2: Front view of the WEN HB424V, highlighting the exposed sanding belt for effective material removal.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your belt sander. Always unplug the tool before performing any maintenance.

- **Cleaning:** After each use, clean the sander with a soft cloth to remove dust and debris. Use compressed air to clear dust from vents and motor housing.
- **Dust Bag/Port:** Empty the dust bag frequently. Clean the dust port to prevent blockages.
- **Belt Tracking Adjustment:** If the sanding belt consistently tracks to one side, use the belt tracking adjustment knob (usually located near the front roller) to center the belt.
- **Carbon Brushes:** This tool uses a brushed motor. Carbon brushes may need periodic inspection and replacement. Refer to the WEN website or contact customer support for specific instructions on brush replacement for model HB424V.
- **Storage:** Store the sander in a clean, dry place, out of reach of children.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sander does not start.	No power supply. Faulty power cord/plug. Trigger switch not engaged.	Check power outlet and circuit breaker. Inspect cord for damage; replace if necessary. Ensure trigger is fully pressed.

Problem	Possible Cause	Solution
Belt slips or tracks off.	Belt tension too loose. Belt tracking out of adjustment. Incorrect belt size.	Engage quick-release lever fully. Adjust belt tracking knob until belt runs centered. Ensure a 4x24-inch belt is used.
Excessive dust.	Dust bag full or improperly attached. Dust port clogged. No shop vacuum connected.	Empty dust bag and ensure it's securely attached. Clear any blockages from the dust port. Connect a shop vacuum for better collection.
Reduced sanding performance.	Worn sanding belt. Incorrect speed setting. Excessive pressure.	Replace with a new sanding belt. Adjust variable speed dial to a higher setting. Apply moderate, even pressure.

## 9. SPECIFICATIONS

<b>Model:</b>	HB424V
<b>Motor:</b>	10 Amps
<b>Voltage:</b>	127 Volts
<b>Power Source:</b>	Corded Electric
<b>Belt Size:</b>	4 x 24 inches
<b>Variable Speed Range:</b>	660 - 1310 feet per minute
<b>Dust Port Diameter:</b>	1.2 inches (inner), 1.4 inches (outer)
<b>Item Weight:</b>	14.47 pounds (6.58 kg)
<b>Package Dimensions:</b>	19 x 9 x 8 inches

## 10. WARRANTY AND SUPPORT

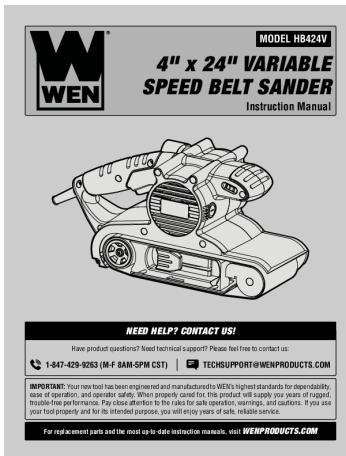
The WEN HB424V Belt Sander comes with a two-year warranty. WEN maintains a stocked inventory of replacement parts and offers customer support.

- Warranty Period:** Two (2) years from the date of purchase.
- Coverage:** Covers defects in material and workmanship.
- Contact Support:** For warranty claims, replacement parts, or technical assistance, please refer to the contact information provided on the official WEN website or your purchase documentation.

Extended protection plans may be available for purchase separately. Refer to your retailer for details on additional protection options.

## Related Documents - HB424V

<p>User Manual of Product 1: WEN 3921 16-Inch Two-Direction Variable Speed Scroll Saw with Fence and Miter Gauge User Manual of Product 2: WEN 6502T 4.3-Amp 4 x 36 in. Belt &amp; Disc Sander with Cast Iron Base</p>	<p><a href="#">WEN 3921 Scroll Saw &amp; 6502T Belt &amp; Disc Sander User Manuals</a> Comprehensive user manuals for WEN 3921 Scroll Saw and WEN 6502T Belt &amp; Disc Sander, covering safety, operation, maintenance, and specifications for woodworking enthusiasts.</p>
 <p>WEN 6502, 6502T 4.3-Amp Belt &amp; Disc Sander Instruction Manual</p>	<p><a href="#">WEN 6502, 6502T 4.3-Amp Belt &amp; Disc Sander Instruction Manual</a> This manual provides comprehensive instructions for the safe operation, assembly, maintenance, and troubleshooting of the WEN 6502 and 6502T 4.3-Amp Belt &amp; Disc Sander. It includes safety guidelines, specifications, parts lists, and warranty information.</p>
 <p>WEN 6515/6515T 1" x 30" Belt Sander with 5" Sanding Disc: User Manual and Safety Guide</p>	<p><a href="#">WEN 6515/6515T 1" x 30" Belt Sander with 5" Sanding Disc: User Manual and Safety Guide</a> Comprehensive user manual for the WEN 6515 and 6515T 1" x 30" Belt Sander with 5" Sanding Disc, covering specifications, safety instructions, assembly, operation, maintenance, and troubleshooting.</p>
 <p>WEN 6502, 6502T 4.3-Amp Belt &amp; Disc Sander Instruction Manual</p>	<p><a href="#">WEN 6502, 6502T 4.3-Amp Belt &amp; Disc Sander Instruction Manual</a> Comprehensive instruction manual for the WEN 6502 and 6502T 4.3-Amp Belt &amp; Disc Sander, covering safety guidelines, assembly, operation, maintenance, troubleshooting, and parts list. Learn how to safely operate and maintain your WEN sander.</p>
 <p>WEN Variable Speed Benchtop Metal Lathe Instruction Manual (ML712, ML716)</p>	<p><a href="#">WEN Variable Speed Benchtop Metal Lathe Instruction Manual (ML712, ML716)</a> Comprehensive instruction manual for the WEN Variable Speed Benchtop Metal Lathe, models ML712 and ML716. Covers safety, operation, maintenance, troubleshooting, and parts lists.</p>
 <p>WEN 3923 16-Inch Variable Speed Scroll Saw Instruction Manual</p>	<p><a href="#">WEN 3923 16-Inch Variable Speed Scroll Saw Instruction Manual</a> Comprehensive instruction manual for the WEN 3923 16-Inch Variable Speed Scroll Saw, covering safety, specifications, assembly, operation, maintenance, and troubleshooting.</p>



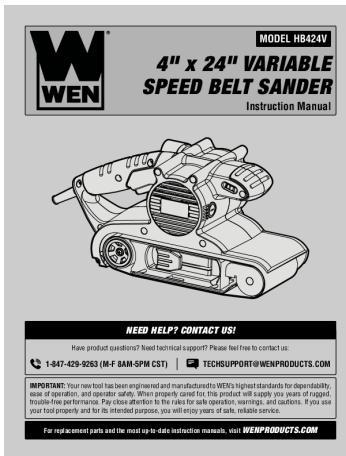
### [\[pdf\] User Manual Specifications](#)

Click here to view the product manual WEN HB424V 10 Amp 4 by 24 Inch Variable Speed Combination Handheld and — WEN Products HB424V manual 20230721cdn shopify s files 1 0012 0350 3168 20230721 v 1696428737 |||

**MODEL HB424V 4 x 24 VARIABLE SPEED BELT SANDER Instruction Manual NEED HELP CONTACT US** Have product questions? Need technical support? Please feel free to contact us

WENPRODUCTS.COM IMPORTANT: Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purposes, you will enjoy years of safe, reliable service.

lang:en score:41 filesize: 4.37 M page\_count: 20 document date: 2023-07-21



### [\[pdf\] User Manual Instructions Specifications Catalog](#)

4 x 24 VARIABLE SPEED BELT SANDER 21 juil 2023 — This manual provides information regarding potential safety concerns as well helpful assembly and operating instructions for your tool NOTE The following 96a4d800 e08b 455a 9416 9238d56560c5 images thdstatic catalog Images 96 |||

**MODEL HB424V 4 x 24 VARIABLE SPEED BELT SANDER Instruction Manual NEED HELP CONTACT US** Have product questions? Need technical support? Please feel free to contact us

WENPRODUCTS.COM IMPORTANT: Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purposes, you will enjoy years of safe, reliable service.

lang:en score:39 filesize: 4.37 M page\_count: 20 document date: 2023-07-21