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› BUCKTOOL Pro 1HP Bench Belt and Disc Sander User Manual

## Bucktool BD4802

# BUCKTOOL Pro 1HP Bench Belt and Disc Sander User Manual

Model: BD4802

## INTRODUCTION

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This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your BUCKTOOL Pro 1HP Bench Belt and Disc Sander. Please read this manual thoroughly before operating the machine.



Figure 1: BUCKTOOL Pro 1HP Bench Belt and Disc Sander (Model BD4802)

## SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury.

- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and dust mask.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep children and bystanders away from the operating machine.
- Securely fasten the sander to a stable workbench to prevent movement during operation.
- Disconnect power before making adjustments, changing belts/discs, or performing maintenance.
- Do not wear loose clothing, gloves, or jewelry that could get caught in moving parts.
- Use the correct type and grit of sanding belt and disc for the material being worked on.
- Never force the workpiece into the sanding surface; allow the machine to do the work.
- Ensure proper ventilation or use a dust collection system to minimize dust exposure.

## SETUP AND ASSEMBLY

Your BUCKTOOL sander comes partially assembled. Follow these steps for complete setup.

**1. Unpacking:**

Carefully remove all components from the packaging. Verify all parts are present according to the packing list. Inspect for any shipping damage.

**2. Mounting:**

Secure the sander to a sturdy workbench using appropriate bolts and nuts (not included). The cast aluminum base with rubber feet helps prevent vibrations, but secure mounting is crucial for stability.



Figure 2: Sturdy cast aluminum base with rubber feet for stability.

**3. Work Table Installation:**

Attach the angle adjustable work table to both the sanding disc and belt sections. Ensure the metal miter gauge is properly seated. The disc work table can adjust from 0 to 45 degrees, and the belt work table can tilt from 0 to 90 degrees for horizontal and vertical sanding.

# THE SPACIOUS SANDING DISC WORK TABLE

CAN ADJUST FROM 0 TO 45 DEGREES TO MEET YOUR DIFFERENT ANGLE NEEDS



Figure 3: Spacious sanding disc work table with 0-45 degree angle adjustment.

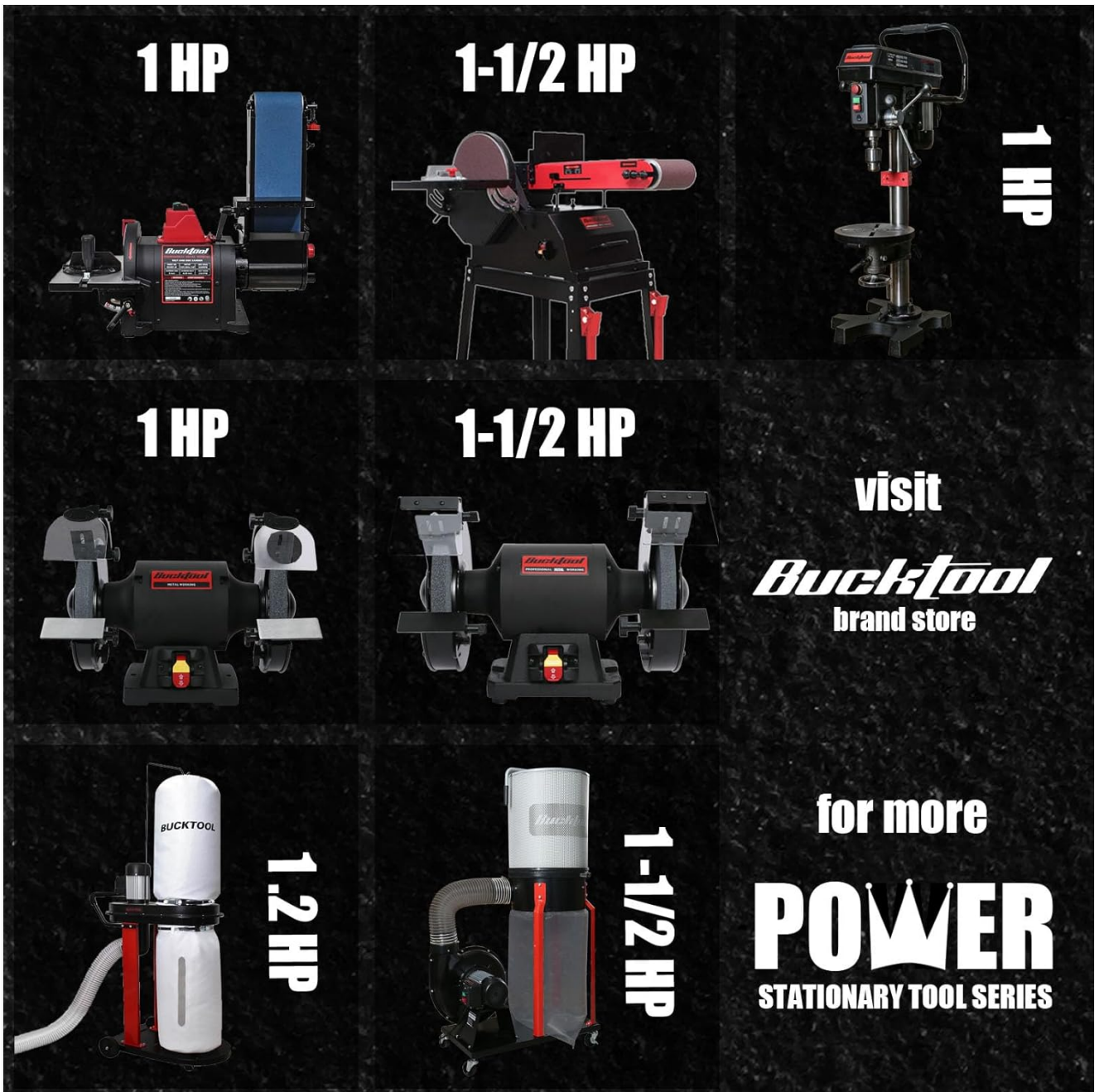


Figure 4: Sanding belt work table with 0-90 degree tilt capability.

**4. Dust Port Connection:**

Connect a suitable dust collection system to the dust ports. The aluminum sanding belt dust outlet is designed to prevent melting. The dust port can also be removed to enlarge the work area for polishing long materials.

# TWO-IN-ONE SANDING MACHINE

The two-in-one sanding machine includes both a 4 x 36-inch belt and an 8-inch disc



## TOP SWITCH BOX

The switch box is placed on the top of the machine, making the operation more convenient.



## HOOK AND LOOP DESIGN SAND DISC PAPER

The sand disc paper is pasted design for easy replacing.



## WITH SHARPENING ACCESSORY

Attached with knife grinding accessories can be installed on the belt plate and it can be removed when not in use.



## METAL SANDING BELT DUST OUTLET

The sanding belt dust outlet is aluminum can prevent melting and sanding disc outlet is flame retardant material.

Figure 5: Removable metal dust port for expanded work area.

## OPERATING INSTRUCTIONS

Familiarize yourself with the controls and functions before beginning any sanding task.

### Powering On/Off

- The switch box is conveniently located on the top of the machine.
- To turn on, press the green "ON" button.
- To turn off, press the red "OFF" button.

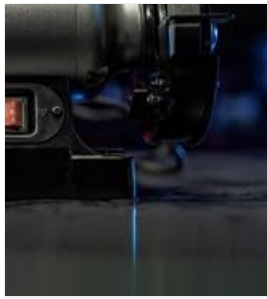


Figure 6: Top-mounted switch box for easy access.

## Sanding Belt Operation

- The 4 x 36-inch belt is suitable for both metal and wood working.
- The belt work table can be tilted from 0 to 90 degrees for various sanding angles.
- The driven drum allows for sanding curved work-pieces.
- For knife sharpening, attach the knife grinding accessories to the belt plate. This accessory can be removed when not in use.

## PLUNGE LINE SHARPENING ACCESSORY

Attached with knife grinding accessories can be installed on the belt plate to sharp the Plunge Line of knife



Figure 7: Plunge line sharpening accessory for knife grinding.

## Sanding Disc Operation

- The 8-inch sanding disc is ideal for precise metal polishing and general sanding.
- The disc paper features a hook and loop design for easy replacement.
- The spacious sanding disc work table can be adjusted from 0 to 45 degrees to meet different angle needs.

# THE SPACIOUS SANDING DISC WORK TABLE

CAN ADJUST FROM 0 TO 45 DEGREES TO  
MEET YOUR DIFFERENT ANGLE NEEDS



**Bucktool**

Figure 8: Sanding disc in use with adjustable work table.

## Direct Drive Motor

The 1HP direct drive motor provides constant and powerful performance, offering 25% more efficiency than traditional belt-driven designs. This design eliminates the need for cog belt tension adjustments or replacements.

**X125% EFFICIENCY**  
**DIRECT DRIVEN**



**Buck Tool**  
PROFESSIONAL METAL WORKING  
**BELT AND DISC SANDER**

MODEL NO.	BD4801-M	DISC SPEED
	120V 50/60 Hz 1HP	3450 RPM
SANDING DISC	8 inch	BELT SPEED
	4x36 inch	21617 FPM

**WARNING! AVERTISSEMENT!**

- 1. Read and understand the instructions before using this tool.
- 2. Always use proper safety techniques when using this tool.
- 3. Do not use this tool for any application not intended for its use.
- 4. Do not use this tool for any application that may cause injury or damage to property.
- 5. Do not use this tool for any application that may cause fire or explosion.
- 6. Do not use this tool for any application that may cause environmental damage.

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**DIRECT DRIVE**

**VS**



**BELT DRIVE**

**DIRECT DRIVE** transmits torque from the motor **DIRECTLY** to the belt end, increasing the sanding efficiency by **25%** compared to the most popular belt drive

Figure 9: Direct drive motor for enhanced efficiency.

# NO COG BELT / MAINTENANCE FREE

This sander use no belt, no gear, so you don't have to adjust the cog belt tension, change damage cog belt like before

Disc Size **8 inch**

Disc Speed **3450 rpm**

Belt Size **4×36 inch**

Belt Speed **2161 fpm**



TWO-YEAR LIMITED WARRANTY

**Bucktool**

Figure 10: Maintenance-free design without cog belts.

## Official Product Videos

Your browser does not support the video tag.

Video 1: Bucktool Pro Belt Disc Sander BD4802. This video provides an overview of the sander's features and capabilities.

Your browser does not support the video tag.

Video 2: Bench Belt Sander for Metal 4 in. x 36 in. This video demonstrates the belt sander's use for metalworking applications.

## MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your sander.

- **Cleaning:**

After each use, clean dust and debris from the machine, especially around the belt and disc areas. Use compressed air or

a brush. Ensure the machine is unplugged before cleaning.

- **Belt and Disc Replacement:**

Replace worn sanding belts and discs promptly. The disc paper uses a hook and loop design for easy replacement. The belt features a quick replacement design and track control function for simple changes.



Figure 11: Quick belt replacement mechanism.



Figure 12: Hook and loop design for easy disc replacement.

- **Belt Tension Adjustment:**

The belt tension is adjustable to ensure proper tracking and performance. Refer to the markings on the machine for tightening or loosening the belt.



Figure 13: Belt tension adjustment knob.

- **Motor Inspection:**

Periodically check the 1HP fully enclosed induction motor for any unusual noises or excessive heat. The direct drive design minimizes maintenance needs for the drive system.

## TROUBLESHOOTING

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This section addresses common issues you might encounter with your sander.

Problem	Possible Cause	Solution
Sander does not start	No power supply; tripped circuit breaker; faulty switch.	Check power connection; reset circuit breaker; contact support if switch is faulty.
Excessive vibration	Loose mounting bolts; unbalanced disc/belt; worn components.	Tighten mounting bolts; replace disc/belt; inspect for worn parts.

Problem	Possible Cause	Solution
Poor sanding performance	Worn belt/disc; incorrect grit; improper technique.	Replace belt/disc; use appropriate grit for material; adjust technique.
Belt tracking issues	Incorrect belt tension; worn belt; debris in tracking mechanism.	Adjust belt tension; replace belt; clean tracking area.

## SPECIFICATIONS

Feature	Detail
Model Number	BD4802
Motor	1 HP Direct Drive
Voltage	120 Volts
AC Adapter Current	5 Amps
Sanding Belt Size	4 x 36 inches
Sanding Disc Size	8 inches
Maximum Rotational Speed	3450 RPM (Disc)
Item Weight	44 pounds (19.98 kg)
Package Dimensions	22.5 x 20.5 x 11 inches
Grit Type (Included)	Fine (80.00)

## WARRANTY AND SUPPORT

Your BUCKTOOL Pro 1HP Bench Belt and Disc Sander (Model BD4802) comes with a **2-Year Limited Warranty**. For warranty claims, technical assistance, or replacement parts, please refer to the contact information provided with your product packaging or visit the official Bucktool brand store online.  
Official Bucktool Brand Store: [Bucktool Store](#)