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## Baileigh Industrial WL-1218VS

# Baileigh Industrial WL-1218VS Wood Turning Lathe User Manual

Model: WL-1218VS (1013575) | Brand: Baileigh Industrial

## INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Baileigh Industrial WL-1218VS Heavy Duty Bench Top Variable Speed Wood Turning Lathe. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The WL-1218VS is an all cast iron benchtop lathe designed for precision wood turning. Its variable speed capabilities make it suitable for a range of applications in both educational settings and home workshops. Despite its compact size, it offers robust performance, fitting conveniently into smaller workspaces.

## Key Features:

- 3/4 hp motor, operating on standard 110-volt power.
- 12-inch swing capacity, allowing for turning of larger diameter workpieces.
- 18-inch distance between centers, accommodating longer projects.
- Three distinct speed ranges for versatile turning: 250 to 750 rpm, 600 to 1,800 rpm, and 1350 to 4,000 rpm.
- Integrated control knob for easy adjustment and clear display of spindle speed.



Figure 1: The Baileigh Industrial WL-1218VS Bench Top Variable Speed Wood Turning Lathe. This image displays the full assembly of the lathe, including the motor, headstock with speed control, tool rest, and tailstock, all mounted on its cast iron bed.

## SAFETY INSTRUCTIONS

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Operating any power tool, especially a wood lathe, requires strict adherence to safety guidelines to prevent serious injury. Always prioritize your safety and the safety of others in the workshop.

### General Safety Rules:

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- **Read the Manual:** Understand all instructions and warnings before operating the lathe.
- **Wear Eye Protection:** Always wear ANSI-approved safety glasses or a face shield.
- **Wear Appropriate Clothing:** Avoid loose clothing, gloves, ties, or jewelry that can get caught in moving parts. Tie back long hair.
- **Maintain a Clean Work Area:** Keep the area around the lathe clear of clutter, wood chips, and debris.
- **Ensure Proper Lighting:** Operate the lathe in a well-lit area.
- **Use Proper Extension Cords:** If an extension cord is necessary, ensure it is rated for the tool's amperage and is in good condition.
- **Keep Guards in Place:** Never operate the lathe without all guards properly installed.
- **Secure Workpiece:** Always ensure the workpiece is securely mounted before starting the lathe.
- **Never Reach Over a Spinning Workpiece:** Keep hands clear of the rotating workpiece and chuck.
- **Unplug Before Adjustments:** Disconnect the power supply before changing accessories, making adjustments, or performing maintenance.
- **Avoid Forcing the Tool:** Allow the lathe to work at its own pace. Forcing it can lead to loss of control or damage.
- **Stay Alert:** Do not operate the lathe when tired or under the influence of drugs, alcohol, or medication.
- **Supervise Visitors:** Keep children and untrained personnel away from the operating area.

## SETUP AND ASSEMBLY

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Proper setup is crucial for the safe and efficient operation of your WL-1218VS lathe. Follow these steps carefully.

### Unpacking and Inspection:

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1. Carefully remove all components from the packaging.
2. Inspect all parts for any shipping damage. Report any damage immediately to your supplier.
3. Verify that all components listed in the packing list are present.

### Mounting the Lathe:

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- The WL-1218VS is a benchtop model and should be securely mounted to a sturdy workbench or stand.
- Use appropriate bolts and washers to fasten the lathe through the designated mounting holes in its base.
- Ensure the workbench is level and capable of supporting the weight and vibrations of the lathe during operation.

### Component Installation:

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- **Tailstock:** Slide the tailstock onto the lathe bed and secure it with its locking lever. Ensure it moves smoothly along the bed.
- **Tool Rest Assembly:** Insert the tool rest post into the banjo (tool rest base) and secure it. Slide the banjo onto the lathe bed and tighten its locking mechanism. Adjust the height and position of the tool rest as

needed for your workpiece.

- **Spindle Accessories:** Attach the appropriate drive center or faceplate to the headstock spindle. Ensure it is threaded on securely.

## Electrical Connection:

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- Ensure the lathe's power switch is in the "OFF" position.
- Connect the lathe to a grounded 110-volt power outlet.
- Verify that the circuit can handle the 3/4 hp motor's power requirements.

## OPERATING INSTRUCTIONS

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Familiarize yourself with the controls and follow these steps for safe and effective wood turning.

### Basic Operation:

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1. **Select Workpiece:** Choose a suitable piece of wood, free of knots, cracks, or foreign objects.
2. **Mount Workpiece:** Securely mount the workpiece between centers or onto a faceplate. Ensure it is centered and held firmly.
3. **Adjust Tool Rest:** Position the tool rest approximately 1/8 inch from the workpiece and slightly below the center line. Lock it firmly in place.
4. **Set Speed:** Use the control knob to select the appropriate spindle speed. Start with a lower speed for roughing out or larger diameter pieces, and increase as needed. The WL-1218VS offers three speed ranges: 250-750 rpm, 600-1800 rpm, and 1350-4000 rpm.
5. **Start Lathe:** With the workpiece clear of the tool rest, turn on the lathe. Allow it to reach full speed before beginning to cut.
6. **Begin Turning:** Using sharp turning tools, gently bring the tool into contact with the rotating workpiece. Always cut from a stable position, supporting the tool on the tool rest.
7. **Monitor Progress:** Continuously check the workpiece for balance and secure mounting. Adjust speed and tool rest position as turning progresses.
8. **Stop Lathe:** When finished or making adjustments, turn off the lathe and allow the workpiece to come to a complete stop before touching it or making changes.

### Speed Control:

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The variable speed control allows for precise adjustment of the spindle speed. The control knob helps you adjust and see the spindle speed. Always select a speed appropriate for the material, workpiece size, and turning operation. Lower speeds are generally safer for initial shaping and larger diameters, while higher speeds are suitable for finishing and smaller workpieces.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Baileigh Industrial WL-1218VS lathe.

### Daily Maintenance:

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- **Clean After Use:** Remove all wood chips, dust, and debris from the lathe bed, headstock, tailstock, and motor housing. A brush or vacuum is recommended; avoid compressed air as it can drive dust into bearings.

- **Inspect Components:** Check all nuts, bolts, and locking levers for tightness. Ensure the tool rest and tailstock move freely but lock securely.

### Weekly/Monthly Maintenance:

- **Lubrication:** Apply a light coat of machine oil to the lathe bed ways to prevent rust and ensure smooth movement of the tailstock and banjo.
- **Belt Inspection:** Check the drive belt for wear, cracks, or tension. Replace if necessary. Refer to the specific instructions for belt replacement in the full manual (if available).
- **Motor Vents:** Ensure motor cooling vents are clear of dust and debris to prevent overheating.

### Long-Term Storage:

If storing the lathe for an extended period, clean it thoroughly, apply a rust preventative to all unpainted metal surfaces, and cover it to protect from dust and moisture.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your WL-1218VS lathe. For problems not listed here, contact Baileigh Industrial customer support.

Problem	Possible Cause	Solution
Lathe does not start	No power supply; Emergency stop engaged; Faulty switch	Check power cord and outlet; Disengage emergency stop button; Contact service for switch replacement.
Excessive vibration	Unbalanced workpiece; Loose mounting bolts; Worn bearings	Re-balance or re-mount workpiece; Tighten all mounting bolts; Contact service for bearing inspection.
Motor overheats	Blocked ventilation; Overloading the motor	Clear motor vents; Reduce cutting depth or speed; Allow motor to cool.
Workpiece slips	Workpiece not securely mounted; Drive center not gripping	Re-mount workpiece, ensuring it is tight; Check drive center for wear or use a different type.
Inconsistent speed	Loose drive belt; Faulty speed control	Check and adjust belt tension; Contact service for speed control issues.

## TECHNICAL SPECIFICATIONS

Feature	Detail
Model Number	WL-1218VS (1013575)
Manufacturer	JPW Industries
Motor Horsepower	3/4 hp
Power Requirement	110-volt AC/DC

Feature	Detail
Swing Over Bed	12 inches
Distance Between Centers	18 inches
Speed Ranges	250-750 rpm, 600-1800 rpm, 1350-4000 rpm
Item Weight	1.1 pounds <i>(Note: This weight likely refers to a component or packaging, not the full lathe.)</i>
Package Dimensions	9 x 5.75 x 0.38 inches <i>(Note: These dimensions likely refer to a component or packaging, not the full lathe.)</i>
Color	Standard
Included Components	BAILEIGH INDUSTRIAL WOODWORKING LATHES <i>(General description, specific accessories may vary)</i>
Batteries Required	No
ASIN	B09VCTDPGP
Date First Available	March 11, 2022

## WARRANTY AND SUPPORT

Baileigh Industrial stands behind the quality of its products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Baileigh Industrial website.

For technical assistance, parts, or service inquiries, please contact Baileigh Industrial customer support. You can find more information and contact details on the [Baileigh Industrial Store on Amazon](#) or their official corporate website.

When contacting support, please have your model number (WL-1218VS) and serial number (if applicable) ready for faster service.