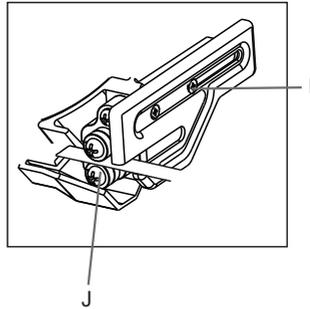
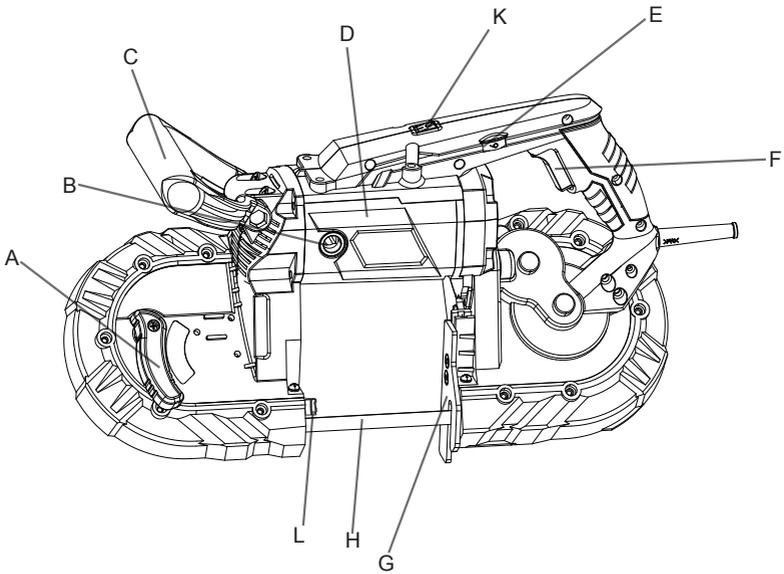


# PORTABLE BAND SAW

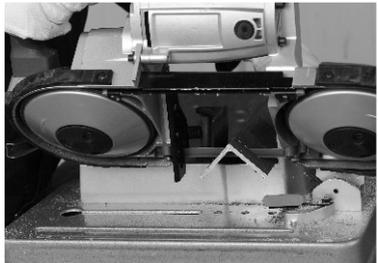
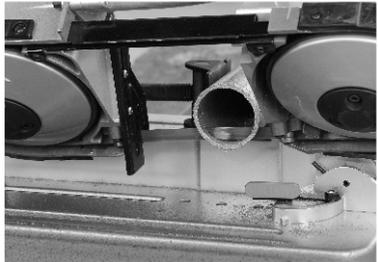
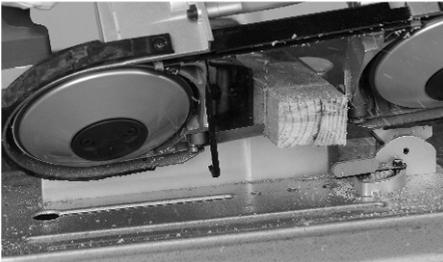
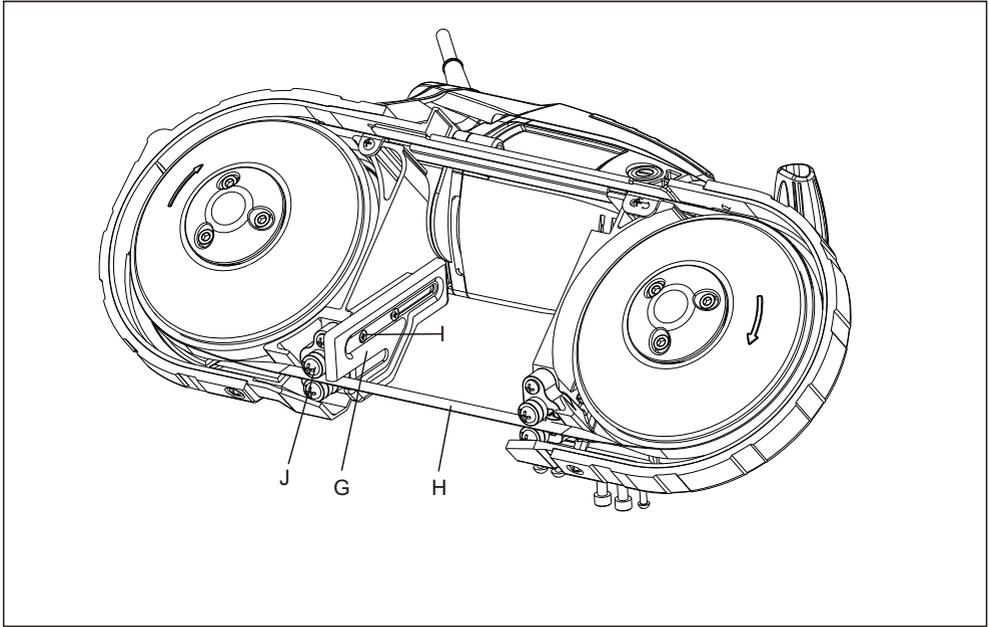
**Model No:R2103**



①



- A Tension handle
- B External carbon brush
- C Auxiliary Handle
- D Motor housing
- E Speed dial
- F On/Off switch
- G Guide bar
- H Blade
- I Screw
- J Guide Bearing
- K LED on/off
- L LED light



# TECHNICAL SPECIFICATIONS

<b>Model Number</b>	R2103	
<b>Voltage</b>	120V~,60Hz	220-240V~,50Hz
<b>Power</b>	10A	1100W
<b>Blade FPM</b>	0-435SFPM	0-2.4m/s
<b>Blade Dimensions</b>	44-7/8"(L)x1/2"(W)x0.025"(Thick)	1140(L)x13mm(W)x0.65mm(Thick)
<b>Cutting Capacity</b>	5"	127x127mm
<b>Protection class</b>	II □	

## SAFETY

### GENERAL SAFETY INSTRUCTIONS



**WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term “power tool” in the warnings refers to your mainsoperated (corded) power tool or battery-operated (cordless) power tool.

### 1.WORK AREA SAFETY

- > Keep 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. Power tools create sparks which may ignite the dust or fumes.
- > Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 2.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. Unmodified plugs and matching outlets will reduce risk of electric shock.
- > Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- > Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- > Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- > When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

- > If operating a power tool in a damp location is unavoidable, use an earth leakage circuit breaker. Use of an earth leakage circuit breaker reduces the risk of electric shock.

### **3. PERSONAL SAFETY**

- > Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- > Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- > Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- > Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- > Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- > Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- > If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

### **4. POWER TOOL USE AND CARE**

- > Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- > Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- > Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- > Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- > Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- > Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- > Use the power tool, accessories and tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

## **5.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.

## **SAFETY INSTRUCTIONS FOR PORTABLE BAND SAW**

- > Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessories contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- > Never leave the Bandsaw unattended while it is running. Do not put the Bandsaw down until the blade comes to a complete stop.
- > Before each use, make sure the Tension Handle is in the tightened position (making the blade taut).
- > Cutting Material. Make sure cutting material is securely fastened down before operating the Bandsaw. Work slowly and carefully when cutting corners, sharp edges, ragged welds, etc., to avoid snagging.
- > Cutting material and the motor housing can get very hot during operation. Stop work until unit cools down to safe temperature. Spray a coolant or water onto the blade.
- > Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- > Avoid unintentional starting. Prepare to begin work before turning on the tool.
- > Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- > When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- > Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
- > This product is not a toy. Keep it out of reach of children.

- > People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: Avoid operating alone. Do not use with power switch locked on. Properly maintain and inspect to avoid electrical shock. Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
- > WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Some examples of these chemicals are: Lead from lead-based paints Crystalline silica from bricks and cement or other masonry products Arsenic and chromium from chemically treated lumber Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)
- > WARNING: The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)
- > The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

### **Vibration Safety**

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- > Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- > Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

- > Wear suitable gloves to reduce the vibration effects on the user.
- > Use tools with the lowest vibration when there is a choice.
- > Include vibration-free periods each day of work.
- > Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
- > To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

## **GENERAL**

- This tool should not be used by people under the age of 16 years
- This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the tool by a person responsible for their safety
- Ensure that children do not play with the tool
- **Always disconnect plug from power source before making any adjustment or changing any accessory**

## OUTDOOR USE

- Connect the tool via a fault current (FI) circuit breaker with a triggering current of 30 mA maximum

## BEFORE USE

- Before using the tool for the first time, it is recommended to receive practical information
- Always check that the supply voltage is the same as the voltage indicated on the nameplate of the tool (tools with a rating of 230V or 240V can also be connected to a 220V supply)
- **Use suitable detectors to find hidden utility lines or call the local utility company for assistance**(contact with electric lines can lead to fire or electrical shock; damaging a gas line can result in an explosion; penetrating a water pipe will cause property damage or an electrical shock)
- **Do not work materials containing asbestos** (asbestos is considered carcinogenic)
- Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful (contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders); **wear a dust mask and work with a dust extraction device when connectable**
- Certain kinds of dust are classified as carcinogenic (such as oak and beech dust) especially in conjunction with additives for wood conditioning; **wear a dust mask and work with a dust extraction device when connectable**
- Follow the dust-related national requirements for the materials you want to work with
- Do not clamp the tool in a vice
- Use completely unrolled and safe extension cords with a capacity of 16 Amps (U.K. 13 Amps)

## AFTER USE

- After switching off the tool, never stop the rotation of the accessory by a lateral force applied against it

## USE

### Blade Installation and Replacement

Turn the Tension Handle A clockwise to release Blade tension

Set the blade into both Guide Bearings J, making sure the Blade is centered on them

Hold the blade on the guides and push in. Make sure the blade evenly fits around the wheels.

Turn the Tension Handle A until the blade is taut and the handle “Tight”. Plug in the tool and put on your ear/eye protection, and turn on the tool. Inspect the blade and make sure it runs steady and evenly around the wheels, and that the teeth are pointed in the correct direction.

### **Guide Bar Assembly**

Assemble the Guide Bar G to the bandsaw before operation

Release the Screws I on the Frame.

Move the Guide Bar G around the blade as shown 3 , then lock the screws.

### **Switching the machine on and off**

Turn on/off the Portable Band Saw by switch F electronic speed control.

Adjust the speed by turning the speed dial E, user can choose different speed for different cutting materials.

### **Switching the LED light on and off**

Turn on/off the LED light by Switch K.

### **Cutting Operations**

Make sure that the Switch is in the off-position, then plug in the tool.

Secure your workpiece to a workbench or other solid surface.

Make sure the cord is out of the way.

Set the Guide Bar against the workpiece, keeping blade at a 90° angle compared to the workpiece.

Turn on the Band saw and allow it to come up to full speed before starting the cut.

Adjust speed by turning the speed dial E.

Tilt the unit so that the blade is vertical as shown in. To start a cut, use minimal force to start a groove. Once groove is started, allow the rest of the blade to cut into workpiece. Doing this will prevent blade from moving from side-to-side during cutting.



**CAUTION! Do not apply force to the tool by pressing too hard with your hands or leaning into it. The weight of the tool itself creates enough force to make a clean cut. Forcing or leaning on the tool may twist or break the blade, damaging the saw and possibly causing injury. As you reach the end of your workpiece, finish off the cut by slightly raising the unit slowly, bringing the blade up.**

## **MAINTENANCE / SERVICE**

- Protect the tool from impact, shock and grease
- Always keep tool and cord clean (especially ventilation slots !)
  - ! disconnect the plug before cleaning
  - ! do not attempt to clean ventilation slots by inserting pointed objects through openings

## **ENVIRONMENT**

- Do not dispose of electric tools, accessories and packaging together with household waste material (only for EU countries)
  - in observance of European Directive on waste of electric and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility

## Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarize yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt, (alternating voltage)	mm	Millimetre
Hz	Hertz	kg	Kilogram
W	Watt	dB(A)	Decibel (A-rated)
/min or min <sup>-1</sup>	Per minute	m/s <sup>2</sup>	Metres per seconds squared



Lock / to tighten or secure.



Unlock / to loosen.



Note / Remark.



Caution / Warning.



Read the instruction manual.



Wear hearing protection.



Wear eye protection.



Wear a dust mask.



Wear protective gloves.



Wear protective, slip-resistant footwear.



Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.



This product is of protection class II. That means it is equipped with enhanced or double insulation.



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.