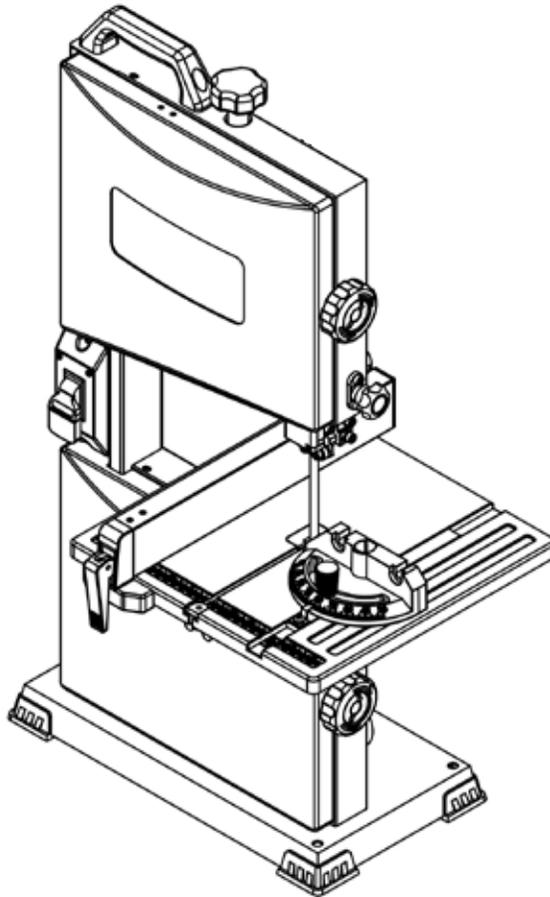




**MODEL 3939, 3939T**

# **9-INCH BENCHTOP BAND SAW**

**Instruction Manual**



## **NEED HELP? CONTACT US!**

Have product questions? Need technical support? Please feel free to contact us:



**1-800-232-1195 (M-F 8AM-5PM CST)**



**TECHSUPPORT@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 purpose, you will enjoy years of safe, reliable service.

For replacement parts and the most up-to-date instruction manuals, visit **WENPRODUCTS.COM**

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To purchase replacement blades for your band saw, visit **WENPRODUCTS.COM**

# INTRODUCTION

Thanks for purchasing the WEN Benchtop Band Saw. We know you are excited to put your tool to work, but first, please take a moment to read through the manual. Safe operation of this tool requires that you read and understand this operator's manual and all the labels affixed to the tool. This manual provides information regarding potential safety concerns, as well as helpful assembly and operating instructions for your tool.

**⚠ SAFETY ALERT SYMBOL:** Indicates danger, warning, or caution. The safety symbols and the explanations with them deserve your careful attention and understanding. Always follow the safety precautions to reduce the risk of fire, electric shock or personal injury. However, please note that these instructions and warnings are not substitutes for proper accident prevention measures.

**NOTE:** The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

At WEN, we are continuously improving our products. If you find that your tool does not exactly match this manual, please visit [wenproducts.com](http://wenproducts.com) for the most up-to-date manual or contact our customer service at **1-800-232-1195**.

**Keep this manual available to all users during the entire life of the tool and review it frequently to maximize safety for both yourself and others.**

# SPECIFICATIONS

Model Number	3939T
Motor	120V, 60Hz, 300W, 2.8A
Throat	9 Inches
Cutting Depth	3-5/8 Inches
Blade Speed	2460 FPM
Blade Length	62 Inches
Blade Width	1/8 to 3/8 Inches
Work Table Bevel	0-45 Degrees
Work Table Dimensions	12 x 12 Inches
Weight	44 Pounds

# GENERAL SAFETY RULES

 **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.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE SAFETY INSTRUCTIONS.

### WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **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.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### ELECTRICAL SAFETY

1. **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.
2. **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.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **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.
5. **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.

6. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

### PERSONAL SAFETY

1. **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.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
3. **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 energizing power tools that have the switch on invites accidents.
4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

# GENERAL SAFETY RULES

 **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.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## SAVE THESE SAFETY INSTRUCTIONS.

7. 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.

### POWER TOOL USE AND CARE

1. **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.

2. **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.

3. **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.

4. **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.

5. **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.

6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. **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.

8. **Use clamps to secure your workpiece to a stable surface.** Holding a workpiece by hand or using your body to support it may lead to loss of control.

9. **KEEP GUARDS IN PLACE** and in working order.

### SERVICE

1. **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.

### CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and 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 with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

# SPECIFIC RULES FOR YOUR BANDSAW

 **WARNING!** Do not operate the power tool until you have read and understood the following instructions and the warning labels.

## SAW BLADE SAFETY

1. Always wear protective gloves when handling saw blades.
2. Only use blades with correct size and type for both your band saw and your workpiece.
3. Never use damaged or deformed saw blades. Only use sharp blades.
4. Install the saw blade in the correct orientation indicated in the instructions.
5. Keep hands out of path of saw blade. Never use your hands to remove sawdust or scrap wood. Use a brush at all times.
6. Never reach around saw blade or reach in back of the saw blade.
7. The use of accessories or attachments not recommended by the manufacturer may result in a risk of personal injury.

## PERSONAL SAFETY

1. Operate in a well ventilated area. Keep the floor area around the band saw level and free of slippery substances or other tripping hazards.
2. Wear ANSI-approved safety goggles to protect your eyes from saw dust. Use hearing protection to protect yourself from hearing loss.
3. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to pacemakers could cause pacemaker interference or pacemaker failure.
4. Wear work gloves when handling saw blades. DO NOT wear gloves, neckties, jewelry, or loose clothing while operating the saw.
5. Saw dust is harmful to your health. Use NIOSH-approved dust masks or other respiratory protection during operation and cleaning.

6. Always turn off and unplug the band saw before making any adjustments or repair tasks. Never adjust the band saw or the workpiece while the saw is running.

7. Only use the band saw to cut wood.

## PREPARING THE BAND SAW

When transporting the band saw, use the transportation handle and roll the assembled saw with the wheels. Never carry the device by its guards or its accessories.

1. Examine the band saw for any damaged or missing parts. Replace or repair damaged parts before operation. Periodically check that all nuts, bolts and other fasteners are properly tightened.

## SECURE YOUR WORKPIECE

1. To avoid blade binding or loss of control, always secure the workpiece to a stable platform, ensuring that body exposure is minimized. Use clamps to secure the workpiece. Never perform any operation freehand.
2. Ensure that work is correctly supported. Supports must be placed under the workpiece on both sides, close to the line of cut and near the edge of the workpiece.
3. For accuracy of cut, and to avoid blade binding, always use a rip fence or straight edge guide.
4. Never hand-hold a workpiece that is too small to be clamped, as it can be launched away and cause injury. Use proper support and guides to secure the small workpiece.
5. Use extra caution with very large, very small, or awkwardly-shaped workpieces. Small pieces should be secured with clamps. Do not hold small pieces with your hand because your fingers might go under the blade guard.
6. Support round work properly (use a V block or press it against the miter gauge) to prevent it from rolling and the blade from biting.

# SPECIFIC RULES FOR YOUR BANDSAW

 **WARNING!** Do not operate the power tool until you have read and understood the following instructions and the warning labels.

7. Plan intricate or small work carefully to avoid pinching the blade. Avoid awkward operations and hand positions to prevent accidental contact with the blade.

## DURING CUTTING OPERATIONS

1. Always stand to one side when operating the saw. Never have any part of the body in line with the path of the saw. Never hold a workpiece in your hand or across your legs while cutting.

2. Ensure hands are away from the cutting area and blade. Keep one hand on the rear handle, and the other on the front grip. If both hands are holding the tool they cannot be cut by the blade.

3. Feed work into the blade against the direction of rotation of the blade only.

4. If you are interrupted when operating the saw, complete the process and switch the saw off before looking up.

5. Power tools must always be held by the insulated gripping surfaces when performing an operation, ensuring protection if the cutting tool makes contact with its own cord or hidden wiring. Contact with a 'live' wire will make exposed metal parts of the power tool 'live' and shock the operator if the insulated gripping surfaces are not used.

6. Do not use the band saw unless all guards are in place. Do not operate with any guard disabled, damaged, or removed. Moving guards must move freely and close instantly.

7. Blade guide, supports, bearings, and blade tension must be properly adjusted to avoid accidental blade contact and to minimize blade breakage. To maximize blade support, always adjust the upper blade guide and blade guard so that it barely clears the workpiece.

8. Turn on the band saw and let it reach full speed, then slowly slide the saw into the workpiece. This will help produce safer and cleaner cuts.

9. Never cut more than one piece at a time. Do not stack workpieces together. Do not attempt to cut material thicker than specified in this manual. Adjust the cutting depth to the thickness of the workpiece.

10. If a cut does not extend to the edge of the workpiece, or if the blade binds in the cut, allow the blade to come to a complete stop and lift the saw out of the workpiece.

11. Turn off tool and wait for saw blade to stop before moving workpiece or changing settings. Do not slow or stop a blade with a piece of wood or by hand. Let the blade come to rest naturally. Do not attempt to free a jammed blade while the machine is still running and connected to power.

12. Always raise the blade to be covered by the blade guard after use.

# ELECTRICAL INFORMATION

## GROUNDING INSTRUCTIONS

**In the event of a malfunction or breakdown**, grounding provides the path of least resistance for an electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

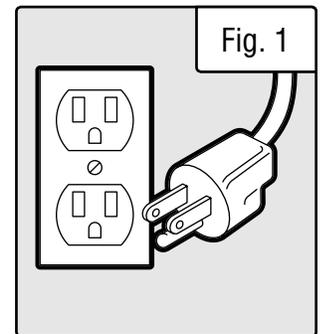
1. **Do not modify the plug provided.** If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

2. **Improper connection** of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

3. **Check** with a licensed electrician or service personnel if you do not completely understand the grounding instructions or whether the tool is properly grounded.

4. **Use only three-wire extension cords** that have three-pronged plugs and outlets that accept the tool's plug (INSERT CR). Repair or replace a damaged or worn cord immediately.

**CAUTION!** In all cases, make certain the outlet in question is properly grounded. If you are not sure, have a licensed electrician check the outlet.



## GUIDELINES AND RECOMMENDATIONS FOR EXTENSION CORDS

When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
2.8A	18 gauge	16 gauge	16 gauge	14 gauge

1. **Examine extension cord before use.** Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

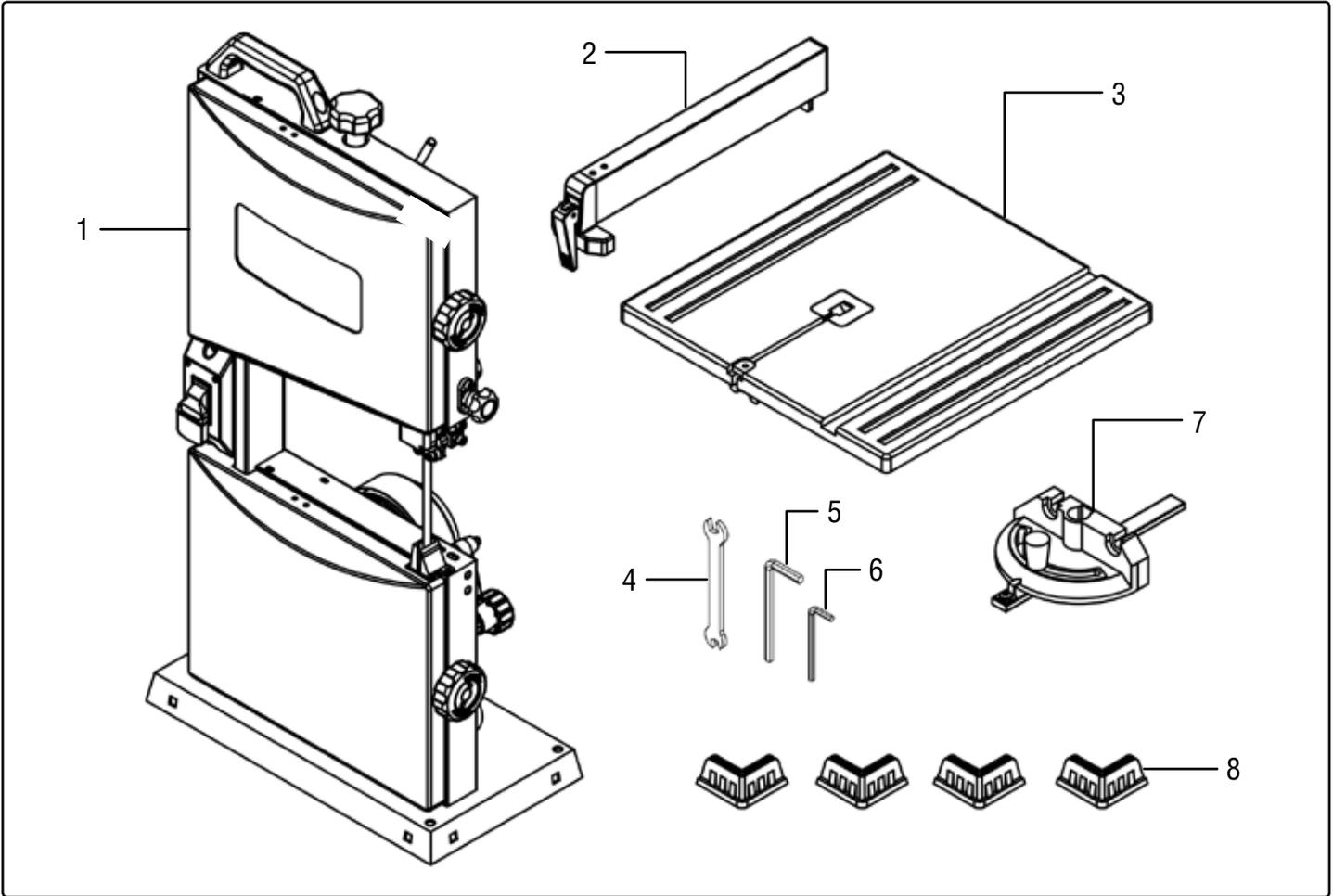
2. **Do not abuse extension cord.** Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

3. **Use a separate electrical circuit for your tool.** This circuit must not be less than a 12-gauge wire and should be protected with a 15A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

# UNPACKING & PACKING LIST

## UNPACKING

With the help of a friend or trustworthy foe, such as one of your in-laws, carefully remove the band saw from the packaging and place it on a sturdy, flat surface. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed. Check the packing list below to make sure you have all of the parts and accessories. If any part is missing or broken, please contact customer service at **1-800-232-1195** (M-F 8-5 CST), or email [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com).



1. Band Saw .....	1	5. 6mm Hex Wrench .....	1
2. Fence .....	1	6. 4mm Hex Wrench .....	1
3. Table Assembly .....	1	7. Miter Gauge .....	1
4. Open Spanner .....	1	8. Feet .....	4

## ASSEMBLY & ADJUSTMENT TOOLS

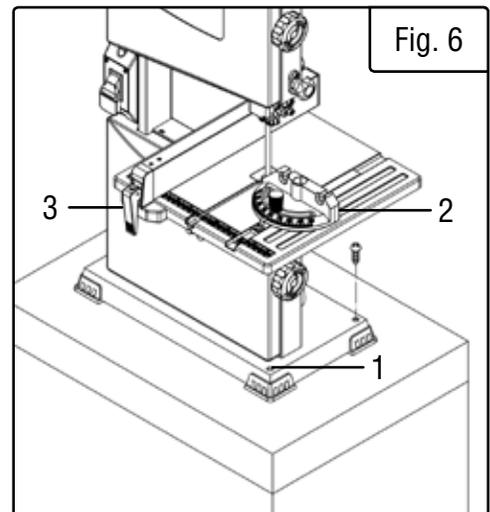
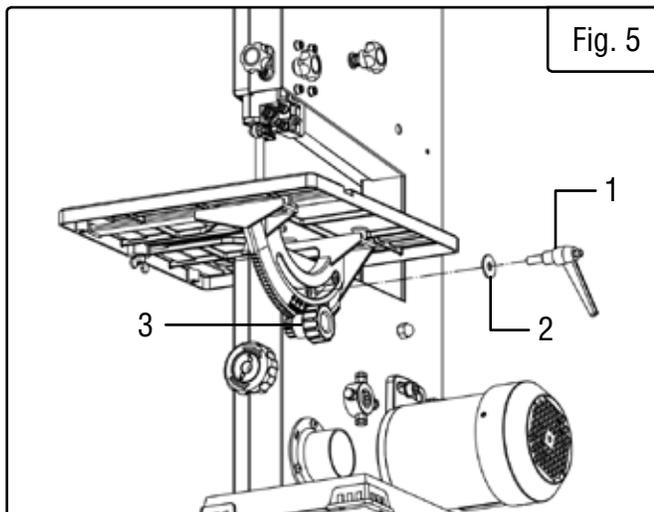
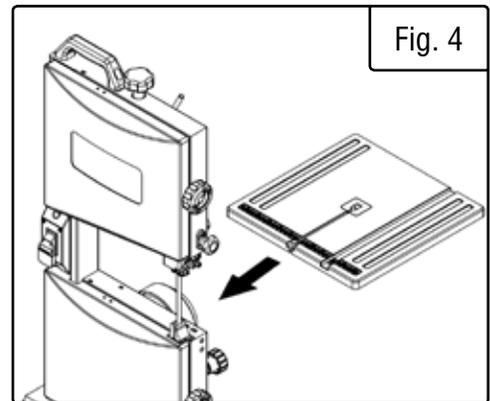
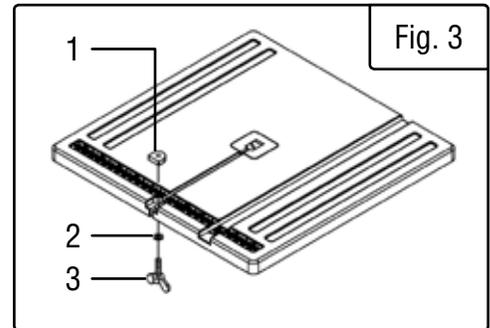
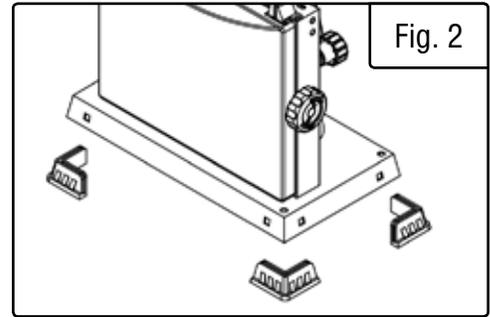
The tools listed below are not included but are required for either assembly or adjustment:

- 13mm Open-End Wrenches (2)
- Phillips-Head Screwdriver (1)
- Combination Square (1)

# ASSEMBLY & ADJUSTMENTS

## ASSEMBLING YOUR BAND SAW

1. Attach the four feet to the base of the band saw (Fig. 2).
  2. Remove the D-nut (Fig. 3 - 1), washer (Fig. 3 - 2), and wing screw (Fig. 3 - 3) from the saw's table assembly (Fig. 3).
  3. Remove the bevel locking handle (Fig. 5 - 1) and washer (Fig. 5 - 2). Slide the table onto the band saw, making sure the blade stays within the table slot (Fig. 4). Pull back on the angle adjustment knob (Fig. 5 - 3) and align the teeth on the table bracket with the teeth on the angle adjustment knob. Release the knob.
  4. Re-install the bevel locking handle and washer (Fig. 5).
- NOTE:** The locking handle is spring-loaded and can be re-positioned. To re-position the handle, pull the handle body outwards, turn it to the desired position, then let it spring back in.
5. Mount the saw to a workbench or other sturdy surface using the three holes provided on the base (Fig. 6 - 1). Mounting hardware is not included with the saw. Use M8 or 1/4" fasteners.
  6. Place the miter gauge into the miter gauge slot (Fig. 6 - 2).
  7. Pull up on the fence locking lever (Fig. 6 - 3) to release it. Place the fence on the table, ensuring it is parallel to the blade. Push down on the fence locking lever to lock the fence to the table.



# ASSEMBLY & ADJUSTMENTS

## BEVELING THE TABLE

1. Loosen the locking handle (Fig. 7 – 1). Adjust the table to the desired position using the table bevel knob (Fig. 7 – 2).

2. Use the angle indicator to confirm the desired angle, then tighten the locking handle.

**NOTE:** The locking handle is spring-loaded and can be re-positioned. To re-position the handle, pull the handle body outwards, turn it to the desired position, then let it spring back in.

## SETTING THE 0° POSITIVE STOP

The 0° positive stop screw can be adjusted as described below.

1. Loosen the nut on the positive stop screw. Use a wrench to grip the screw's hex head, and turn it to adjust it upwards or downwards.

2. Use a bubble level to check that the table is level, and a combination square to ensure that the table is square to the blade. Make adjustments to the positive stop as necessary, then tighten the nut.

3. Examine the angle pointer on the bevel guide bracket, and ensure it points to 0°. If it does not, use a Phillips-head screwdriver (not included) to loosen the screw on the pointer. Adjust the pointer so it points to 0°. Tighten the screw.

## ADJUSTING THE BLADE TRACKING

Blade tracking refers to the adjustments that are made in order to keep the blade riding on the wheels smoothly and evenly. Blade tracking has been set by the factory. However, when you install a new blade, you may need to adjust the tracking settings. Follow the directions below.

**⚠ WARNING!** Blade teeth are sharp! Use care, ANSI Z87.1-approved eye protection, long sleeves, and protective gloves when handling the saw blade. Failure to comply may cause serious injury.

1. Turn off and unplug the band saw. Wait for it to come to a complete stop before opening any covers.

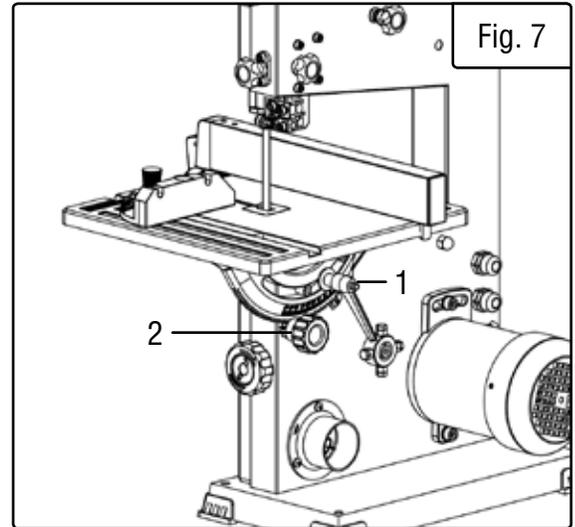
2. Open the upper and lower doors (Fig. 8).

3. Use one hand to grip the spokes of the upper wheel and turn it clockwise (as viewed from the front of the saw), observing the blade tracking. Do not touch the blade.

4. SLOWLY turn the tracking knob (Fig. 9 - 2) while rotating the upper wheel. Turning the tracking knob clockwise (as viewed from the back of the saw) will cause the blade to track more towards the rear of the saw; turning it counterclockwise will cause the blade to track more towards the front of the saw.

**NOTE:** You may only need to adjust the tracking knob by 1/4 turn or so. Make only small adjustments – this will make tracking the blade properly much easier.

5. The blade tracking is properly set when the tooth gullets (the valleys between the blade teeth) ride along the center of the tire. Tighten the tracking lock knob, and close the covers.



# ASSEMBLY & ADJUSTMENTS

## ADJUSTING BLADE TENSION

**⚠ WARNING!** If the blade tension is too high, the blade may break. If the tension is too low, the blade may slip, stall, or wander during a cut.

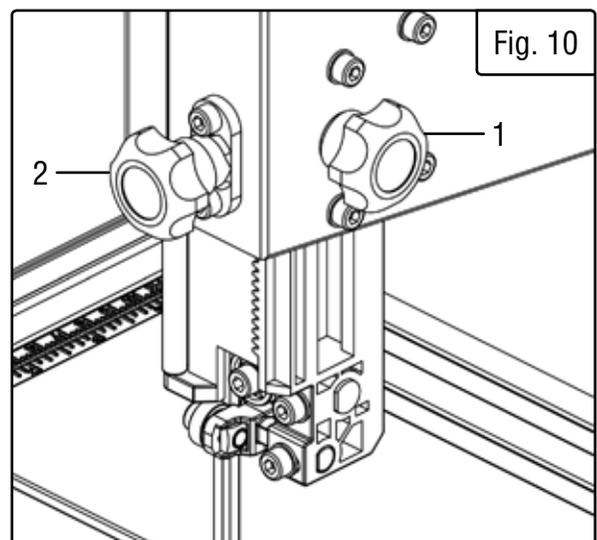
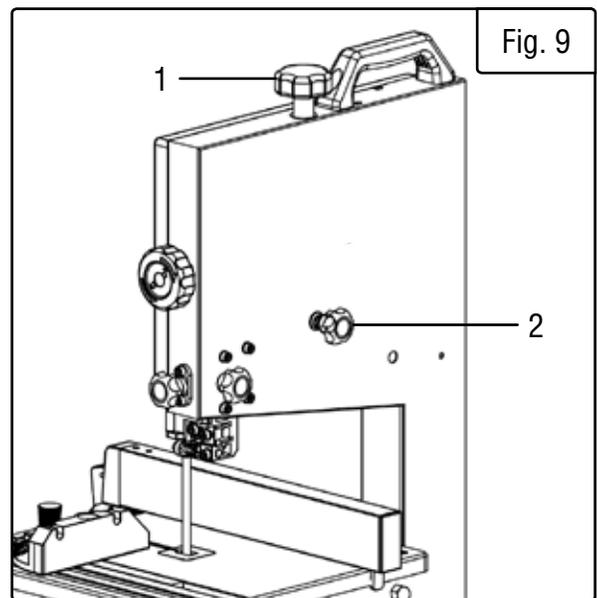
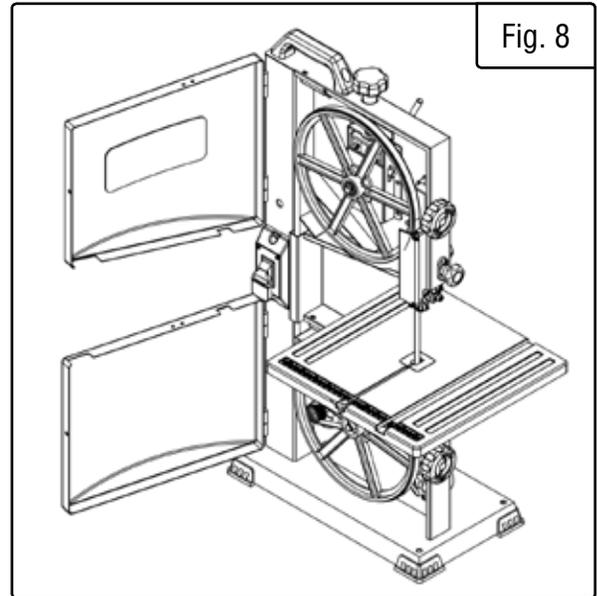
**⚠ WARNING!** Blade teeth are sharp! Use care, ANSI Z87.1-approved eye protection, long sleeves, and protective gloves when handling the saw blade. Failure to comply may cause serious injury.

1. Raise the upper blade guide (see “RAISING AND LOWERING THE UPPER BLADE GUIDE”).
2. Open the upper door.
3. With a gloved finger, gently press the blade sideways. Take this measurement at the left side of the saw, before the blade touches the upper wheel. When tension is properly adjusted, the blade should not move more than 1/8-inch.
4. Use the blade tension knob (Fig. 9 - 1) to make fine adjustments to the blade tension. Turning the knob clockwise will increase blade tension; turning it counterclockwise will decrease blade tension.

## RAISING AND LOWERING THE UPPER BLADE GUIDE

The height of the upper blade guard should be adjusted prior to every cut. The blade guide should always be positioned as close to the upper face of the workpiece as possible – no more than 1/8 inch (3mm).

1. Loosen the adjustment locking knob (Fig. 10 - 1) on the rear of the saw. Use the adjustment knob (Fig. 10 - 2) to adjust the height of the upper blade guide. Tighten the adjustment locking knob once the desired setting has been reached.



# ASSEMBLY & ADJUSTMENTS

## ADJUSTING THE UPPER GUIDE BEARINGS

Proper adjustment of the guide bearings is one of the best things you can do for your saw – it will prolong blade life, prolong bearing life, and help prevent blade “drift”. Turn off and unplug the band saw before beginning. Open the upper door.

**⚠ WARNING!** The upper blade guide bearings must be adjusted after every blade change and tracking adjustment.

1. Use a hex wrench to loosen the lower set screw (Fig. 11 - 1) on the right side of the upper guide bearing assembly. Position the assembly so that the roller bearings are about 1 – 2 mm (1/10 inch) behind the tooth gullets. Tighten the screw.

**NOTE:** Ensure that you do not rotate the upper guide bearing assembly about the shaft. Make sure the screw is tightened onto the flat of the shaft.

2. Use a hex wrench to loosen the upper set screw (Fig. 11 - 2) on the right side of the assembly. Position the thrust bearing so that it is as close to the spine of the blade as possible, without touching it.

3. Rotate the blade a few times to ensure that the spine of the blade does not touch the bearing at all while the blade is rotating. Once the bearing has been properly positioned, tighten the screw.

4. Use a hex wrench to loosen the socket-head cap screws on the front of the assembly (Fig. 12). Position the roller bearings, left and right, so that they are as close as possible to the body of the blade without touching it. This will be about 0.5mm (1/50 inch).

5. Rotate the blade a few times to ensure that the body of the blade does not touch either roller bearing at all while the blade is rotating. Once the bearings have been properly positioned, tighten the screws.

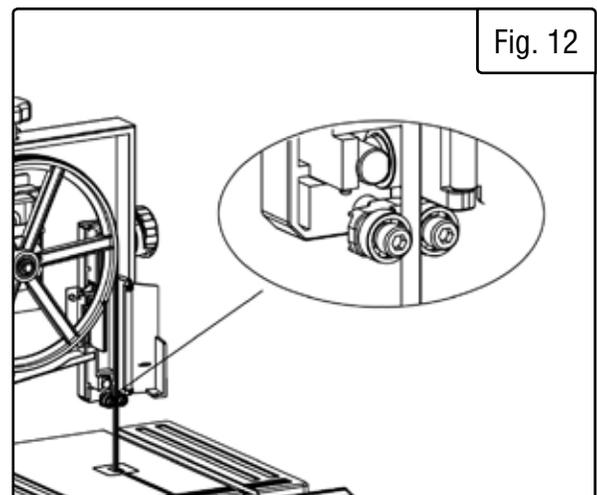
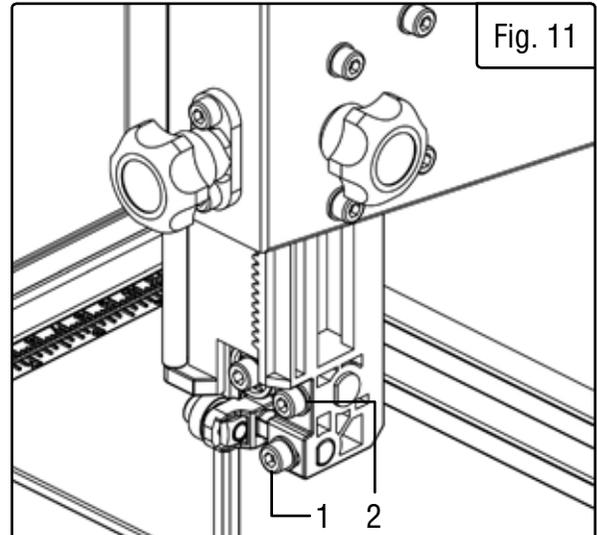
## ADJUSTING THE LOWER GUIDE BEARINGS

Proper adjustment of the guide bearings is one of the best things you can do for your saw – it will prolong blade life, prolong bearing life, and help prevent blade “drift”. Turn off and unplug the band saw before beginning. Open the lower door.

**⚠ WARNING!** The lower blade guide bearings must be adjusted after every blade change and tracking adjustment.

**TIP:** Insert the hex wrenches through the holes in the right side of the housing in order to access the screws more easily.

1. Use a hex wrench to loosen the upper socket-head cap screw (Fig. 13 - 1). Position the assembly so that the roller bearings are about 1 – 2 mm (1/10 inch) behind the tooth gullets. Tighten the screw.



## ASSEMBLY & ADJUSTMENTS

2. Use a hex wrench to loosen the lower socket-head cap screw (Fig. 13 – 2). Position the thrust bearing so that it is as close to the spine of the blade as possible, without touching it.

3. Rotate the blade a few times to ensure that the spine of the blade does not touch the bearing at all while the blade is rotating. Once the bearing has been properly positioned, tighten the screw.

4. Use a hex wrench to loosen the socket-head cap screws on the front of the assembly (Fig. 13 – 1 & 2). Position the roller bearings, left and right, so that they are as close as possible to the body of the blade without touching it. This will be about 0.5mm (1/50 inch).

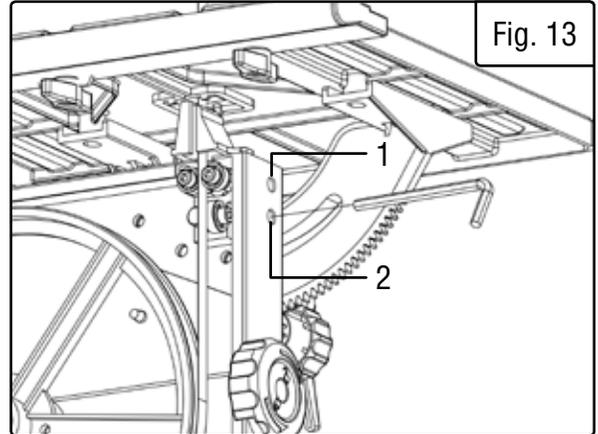


Fig. 13

5. Rotate the blade a few times to ensure that the body of the blade does not touch either roller bearing at all while the blade is rotating. Once the bearings have been properly positioned, tighten the screws.

### ADJUSTING THE BELT TENSION

Use the instructions below to adjust the belt tension, as needed, over the life of your saw. Older belts may stretch with use. If you do not plan to use the saw for longer than 1 week, release the tension on the drive belt in order to prolong its life.

**⚠ WARNING!** Disconnect machine from the power source! Never make adjustments with the machine running. Failure to comply may cause serious injury.

1. Open the lower cover. Be careful to not touch the blade.

2. Loosen the socket-head cap screw on the back of the motor-mounting flange, then move the motor towards the center of the saw to lower tension on the belt. Move the motor towards the outside of the saw to increase tension on the belt.

3. Tighten the screw once the desired belt tension has been achieved. The belt is properly tensioned when firm downward pressure on the belt, applied with a finger on the bottom of the belt between the pulleys (may need line art), moves the belt no more than 1/8" (3mm).

# OPERATION

## SWITCH BOX

Use the power switch (Fig. 16 – 1) to turn the saw ON or OFF. Remove the yellow safety key when the saw is OFF to prevent unauthorized use. Store the safety key in a safe place out of the reach of children.

## GENERAL CUTTING GUIDELINES

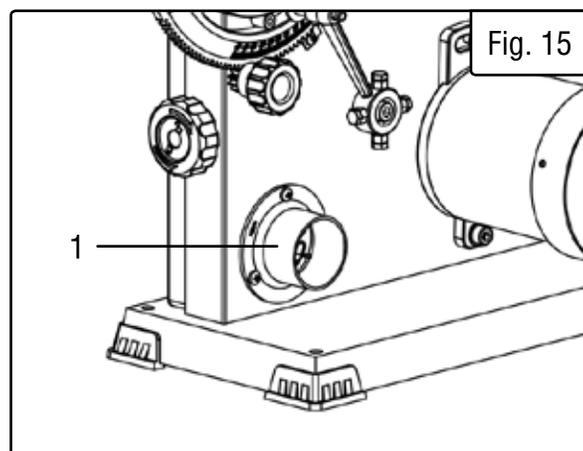
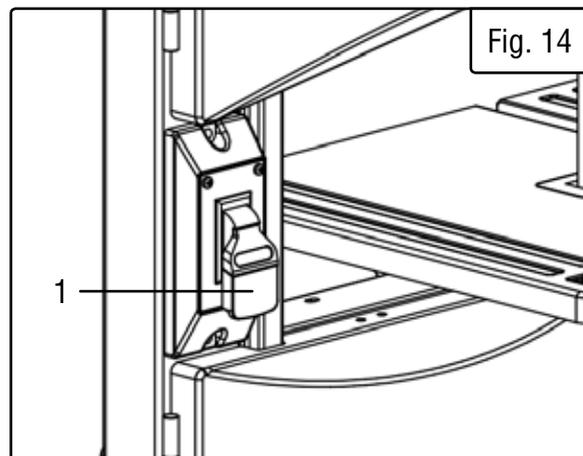
**⚠ WARNING!** Operating a band saw involves a certain amount of risk. Read the instructions and plan your work before cutting a workpiece.

1. Make a test cut on scrap wood to test the settings and get the hang of operating the band saw.
2. Make all adjustments with the band saw turned OFF and unplugged.
3. Make sure the upper guard is close to the upper face of your workpiece (see “RAISING AND LOWERING THE UPPER BLADE GUIDE”).
4. Always use the push stick when cutting intricate or narrow workpieces. Keep fingers, hands, and other beloved body parts away from the blade!
5. Do not force the workpiece against the blade. Let the tool do the work. Light contact gives easier cutting and prevents excess friction, which will prolong the life of the blade and prevents workpiece burning.
6. Always use dust collection. A 2” dust port (Fig. 17 - 1) is located on the back of the saw, next to the motor (see “KNOW YOUR BANDSAW”). Use a hose clamp (if necessary) to secure the adapter or dust hose to the dust port.
7. The band saw is most suitable for straight-line cutting (cross-cutting, ripping, miter cutting, beveling, compound cutting, and resawing). While it can certainly cut curves, it is not a scroll saw, and cannot perform the same kinds of cuts. Do not cut sharp corners; instead, saw around corners.

## CUTTING CURVES

When freehand-cutting curves, carefully turn the workpiece so that the blade follows the cut line without twisting. If the curve is so sharp that you repeatedly back up and cut new kerf, use a narrower blade, or a blade with more set (that is, the teeth are further apart). When a blade has more set, the workpiece turns more easily, but you will get a rougher cut.

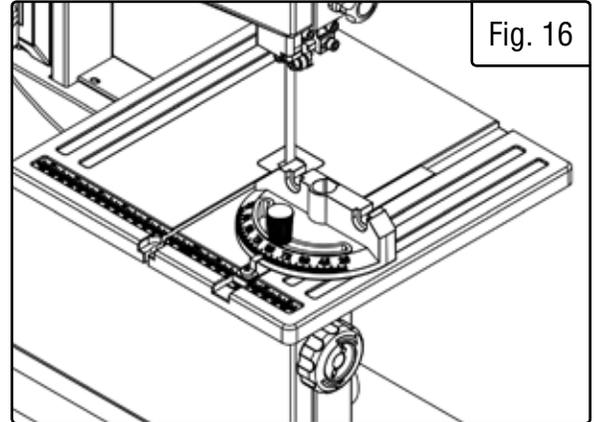
When changing a cut, do not withdraw the workpiece from the blade – the workpiece may drag the blade off the wheels. Instead, turn the workpiece and cut out through the scrap section of the workpiece. When cutting long curves, make relief cuts as you go along.



# OPERATION

## USING THE MITER GAUGE

1. Place the miter gauge into the slot on the table.
2. Loosen the knob on the gauge and set a new miter angle (between 0° and 60°).
3. Tighten the knob.



## CHANGING BLADES

**⚠ WARNING!** Always be sure that the band saw is turned OFF and unplugged before making any adjustments.

**⚠ WARNING!** Blade teeth are sharp! Use care, ANSI Z87.1-approved eye protection, long sleeves, and protective gloves when handling the saw blade. Failure to comply may cause serious injury.

1. Double-check that the band saw is turned OFF and disconnected from the power source.
2. Open the upper and lower doors.
3. Turn the blade tension knob (Fig. 9 - 1) to relieve tension on the blade.
4. Remove the blade from the wheels and from between the upper and lower bearing guides. Guide it through the table slot. Store the blade in a safe place.
5. Guide the new blade through the table slot, spine first. The blade teeth should be facing you, pointing down towards the table.
6. Place the blade on the upper and lower wheels, and between the bearing guides (Fig. 15).
7. Place the blade under proper tension (see “ADJUSTING BLADE TENSION”).
8. Adjust the blade tracking (see “ADJUSTING THE BLADE TRACKING”).
9. Adjust the upper and lower bearing guides (see sections on page 12).
10. Make a test cut on a scrap piece of wood before resuming cutting.

## MAINTENANCE

**⚠ WARNING!** Always turn OFF and unplug the band saw before performing any maintenance.

1. Always use a dust collection system. This will help prevent sawdust from building up inside the band saw.
2. Wipe off the table after every use. Remove any pitch, sap, or resin that has accumulated on the table, blade guide, bearings, etc. using a damp cloth.
3. At least once a month, open the doors and vacuum out any accumulated dust, shavings, etc. Remove the blade and clean off any built-up sawdust from the wheels and tires using a stiff brush.
4. Check the drive belt at least monthly for proper tension and any signs of wear.
5. As needed, apply a light coat of good-quality paste wax to the table. This will help provide a smooth gliding surface for your workpieces.
6. The bearings on your band saw are permanently sealed and lubricated, and require no additional lubrication.
7. If you do not plan to use the saw for a long period of time (over 1 week), release tension on the blade, as well as on the drive belt. This will help prolong blade life and belt life. Do not forget to re-engage the belt and blade tension before using the saw again.

## TROUBLESHOOTING GUIDE

**⚠ WARNING!** Stop using the generator immediately if any of the following problems occur or risk serious personal injury. If you have any questions, please contact customer service at **1-800-232-1195** (M-F 8-5 CST), or email [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com).

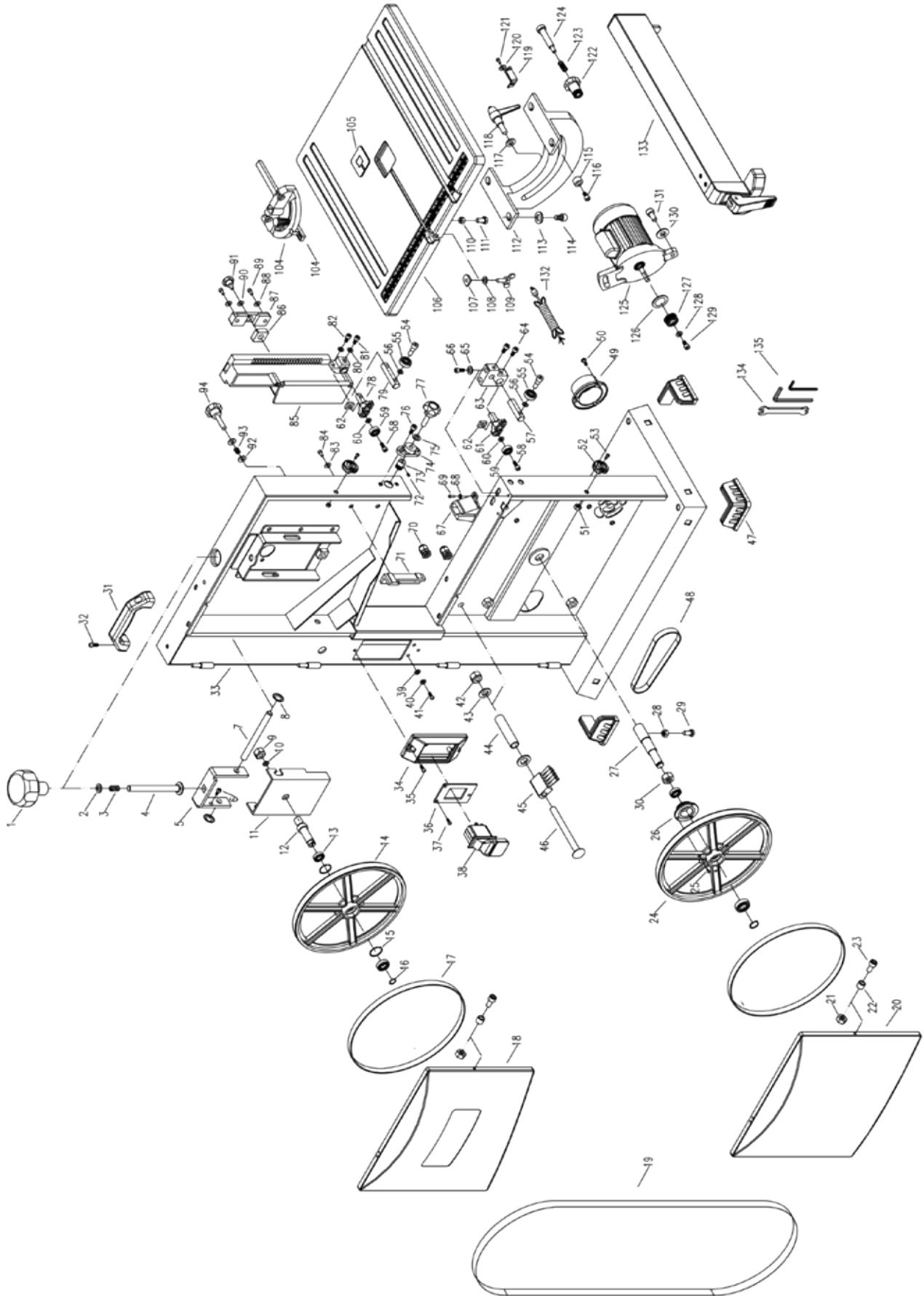
Problem	Possible Cause	Solution
<b>Saw is noisy.</b>	Loose fastener.	Check the saw and stand and ensure that all fasteners are tightened.
	Guide bearings improperly adjusted.	Adjust guide bearings properly (see sections on p. 12).
	Improper blade tracking setting.	Adjust tracking properly (see "ADJUSTING THE BLADE TRACKING").
	Blade is hitting something it shouldn't.	Open up the saw doors and check to see if the blade is hitting something (rotate wheels by hand).
	Foreign object inside saw.	Remove object.
	Worn belt.	Replace belt. Contact customer service (1-800-232-1195) for assistance.
	Worn wheel or motor bearing.	Remove blade. Rotate each wheel by hand, then move the belt. Contact customer service (1-800-232-1195) for assistance.

# TROUBLESHOOTING GUIDE

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Problem	Possible Cause	Solution
<b>Band saw will not start (no sound whatsoever).</b>	Saw not plugged in.	Plug in saw.
	Power switch turned OFF, or safety key not inserted.	Insert safety key and turn saw ON.
	Improper size/length of extension cord.	Use proper extension cord. Refer to chart on p. 6.
	Bad outlet.	Try another outlet, or have a qualified electrician check/replace outlet.
	Defective power switch.	Contact customer service (1-800-232-1195) for assistance.
<b>Band saw will not start (humming sound).</b>	Blade overtightened.	Adjust blade tension properly (see "ADJUSTING BLADE TENSION").
	Belt overtightened.	Adjust belt tension properly (see "ADJUSTING THE CUTTING SPEED").
	Bad start capacitor.	Contact customer service (1-800-232-1195) for assistance.
	Bad motor bearing, or bad motor.	Contact customer service (1-800-232-1195) for assistance.
<b>Blade will not track properly.</b>	Blade is improperly tensioned.	Adjust blade tension properly (see "ADJUSTING BLADE TENSION").
	Tracking knob is over-adjusted.	Adjust tracking properly (see "ADJUSTING THE BLADE TRACKING").
	Blade is warped.	Replace the blade.
	Tires are worn.	Contact customer service (1-800-232-1195) for assistance.
<b>Blade "drifts".</b>	Blade is improperly tensioned.	Adjust blade tension properly (see "ADJUSTING BLADE TENSION").
	Blade is dull.	Replace blade.
	Upper blade guard height improperly set.	Adjust upper blade guide height properly (see "RAISING AND LOWERING THE UPPER BLADE GUIDE").
	Guide bearings improperly adjusted.	Adjust guide bearings properly (see sections on p. 12).
	Improper blade tracking setting.	Adjust tracking properly (see "ADJUSTING THE BLADE TRACKING").
	Improper feed rate.	Do not force the workpiece. Let the tool do the work.
	Blade is warped.	Contact customer service (1-800-232-1195) for assistance.

# EXPLODED VIEW & PARTS LIST



# EXPLODED VIEW & PARTS LIST

No.	Part	Description	Qty.
1	3939-001	Blade Tension Knob	1
2	3939-002	Flat Washer	1
3	3939-003	Blade Tension Spring	1
4	3939-004	Carriage Bolt	1
5	3939-005	Pulling Plate	1
6	3939-006	Socket Head Screw	1
7	3939-007	Shaft	1
8	3939-008	Lock Catch	2
9	3939-009	Hex Nut	1
10	3939-010	Lock Washer	1
11	3939-011	Bevel Support Plate	1
12	3939-012	Upper Wheel Shaft	1
13	3939-013	Ball Bearing (6000ZZ)	4
14	3939-014	Upper Wheel	1
15	3939-015	Int. Retaining Ring	4
16	3939-016	Ext. Retaining Ring	2
17	3939-017	Tire	2
18	3939-018	Upper Wheel Cover	1
19	3939-019	Blade	1
20	3939-020	Lower Wheel Cover	1
21	3939-021	Lock Nut	2
22	3939-022	Bushing	2
23	3939-023	Socket Head Screw	2
24	3939-024	Lower Wheel	1
25	3939-025	Thread Forming Screw	3
26	3939-026	Drive Pulley	1
27	3939-027	Lower Wheel Shaft	1
28	3939-028	Hex Nut	4
29	3939-029	Hex Bolt	4
30	3939-030	Lock Nut	1
31	3939-031	Lifting Handle	1
32	3939-032	Pan Head Screw	2
33	3939-033	Frame	1
34	3939-034	Switch Box	1
35	3939-035	Pan Head Screw	2
36	3939-036	Switch Mounting Plate	1
37	3939-037	Thread Forming Screw	1
38	3939-038	Switch	1
39	3939-039	Lock Washer	2
40	3939-040	Serrated Washer	2
41	3939-041	Pan Head Screw	2

No.	Part	Description	Qty.
42	3939-042	Hex Nut	1
43	3939-043	Flat Washer	2
44	3939-044	Bushing	1
45	3939-045	Brush	1
46	3939-046	Carriage Blot	1
47	3939-047	Foot	4
48	3939-048	Belt	1
49	3939-049	Dust Port	1
50	3939-050	Pan Head Screw	3
51	3939-051	Lock Nut	2
52	3939-052	Catching Knob	2
53	3939-053	Socket Head Screw	2
54	3939-054	Socket Head Screw	2
55	3939-055	Ball Bearing (606ZZ)	2
56	3939-056	Flat Washer	2
57	3939-057	Support Rod	1
58	3939-058	Socket Head Screw	4
59	3939-059	Ball Bearing (605ZZ)	4
60	3939-060	Flat Washer	4
61	3939-061	Lower Guide Block	1
62	3939-062	Square Nut	4
63	3939-063	Support Block	1
64	3939-064	Socket Head Screw	2
65	3939-065	Flat Washer	2
66	3939-066	Socket Head Screw	2
67	3939-067	Lower Protecting Cover	1
68	3939-068	Flat Washer	2
69	3939-069	Pan Head Screw	2
70	3939-070	Strain Relief	2
71	3939-071	Guide Plate	1
72	3939-072	Set Screw	1
73	3939-073	Pinion	1
74	3939-074	Adjustment Knob Seat	1
75	3939-075	Flat Washer	1
76	3939-076	Socket Head Screw	2
77	3939-077	Adjustment Knob	1
78	3939-078	Upper Guide Block	1
79	3939-079	Support Rod	1
80	3939-080	Flat Washer	2
81	3939-081	Socket Head Screw	1
82	3939-082	Socket Head Screw	1

# EXPLODED VIEW & PARTS LIST

No.	Part	Description	Qty.
83	3939-083	Flat Washer	2
84	3939-084	Socket Head Screw	2
85	3939-085	Upper Cover Assembly	1
86	3939-086	Square Nut	1
87	3939-087	Guide Block	1
88	3939-088	Flat Washer	2
89	3939-089	Socket Head Screw	2
90	3939-090	Flat Washer 8mm	1
91	3939-091	Locking Knob	1
92	3939-092	Flat Washer 8mm	2
93	3939-093	Spring	1
94	3939-094	Tracking Knob	1
104	3939-104	Miter Gauge Assembly	1
105	3939-105	Table Insert	1
106	3939-106	Table	1
107	3939-107	D Nut	1
108	3939-108	Flat Washer	1
109	3939-109	Wing Screw	1
110	3939-110	Hex Nut	1
111	3939-111	Hex Bolt	1
112	3939-112	Bevel Case	1
113	3939-113	Flat Washer	4

No.	Part	Description	Qty.
114	3939-114	Socket Head Screw	4
115	3939-115	Guide Bushing	2
116	3939-116	Socket Head Screw	2
117	3939-117	Flat Washer	1
118	3939-118	Locking Handle	1
119	3939-119	Pointer	1
120	3939-120	Flat Washer	1
121	3939-121	Pan Head Screw	1
122	3939-122	Table Adjusting Handle	1
123	3939-123	Spring	1
124	3939-124	Bolt	1
125	3939-125	Motor	1
126	3939-126	Sponge Ring	1
127	3939-127	Motor Pully	1
128	3939-128	Flat Washer	1
129	3939-129	Socket Head Screw	1
130	3939-130	Flat Washer 8mm	2
131	3939-131	Socket Head Screw	2
132	3939-132	Power Cord	1
133	3939-133	Fence Assembly	1
134	3939-134	Open Spanner	1
135	3939-135	Hex Wrench	2

# WARRANTY STATEMENT

WEN Products is committed to building tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

## LIMITED WARRANTY OF WEN PRODUCTS FOR HOME USE

GREAT LAKES TECHNOLOGIES, LLC (“Seller”) warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship during personal use for a period of two (2) years from date of purchase or 500 hours of use; whichever comes first. Ninety days for all WEN products if the tool is used for professional or commercial use. Purchaser has 30 days from the date of purchase to report missing or damaged parts.

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the replacement of parts, without charge, which are defective in material or workmanship and which have not been subjected to misuse, alteration, careless handling, misrepair, abuse, neglect, normal wear and tear, improper maintenance, or other conditions adversely affecting the Product or the component of the Product, whether by accident or intentionally, by persons other than Seller. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of Purchase must be a direct vendor of Great Lakes Technologies, LLC. Purchasing through third party vendors, including but not limited to garage sales, pawn shops, resale shops, or any other secondhand merchant, voids the warranty included with this product. Contact [techsupport@wenproducts.com](mailto:techsupport@wenproducts.com) or 1-800-232-1195 with the following information to make arrangements: your shipping address, phone number, serial number, required part numbers, and proof of purchase. Damaged or defective parts and products may need to be sent to WEN before the replacements can be shipped out.

Upon the confirmation of a WEN representative, your product may qualify for repairs and service work. When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge for addresses within the contiguous United States.

THIS LIMITED WARRANTY DOES NOT APPLY TO ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME, INCLUDING BELTS, BRUSHES, BLADES, BATTERIES, ETC. ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

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THIS LIMITED WARRANTY APPLIES ONLY TO ITEMS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT LINE. FOR WARRANTY PARTS OR PRODUCTS REPAIRED UNDER WARRANTY SHIPPING TO ADDRESSES OUTSIDE OF THE CONTIGUOUS UNITED STATES, ADDITIONAL SHIPPING CHARGES MAY APPLY.



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