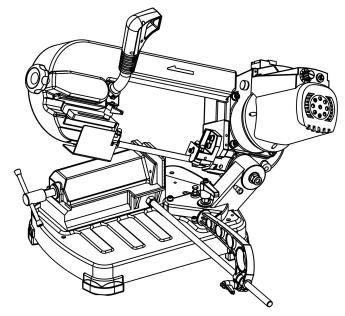


5-INCH PORTABLE METAL BAND SAW



Model # 3975 bit.ly/wenvideo

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 intended purpose, you will enjoy years of safe, reliable service.



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TECHNICAL DATA

Model Number:	3975
Motor:	120 V, 60 Hz, 4.5A, 400W (S6 40%)
Saw Blade:	56-1/2 x 1/2 in.
Cutting Capacity for Square M	Material: $5 \ge 4-7/8$ in. (90°)
	3-1/8 x 3-15/16 in. (45°)
Cutting Capacity for Circular	Material: $5 \text{ in. diameter } (90^\circ)$
	$3-1/8$ in. diameter (45°)
Cutting Angle Adjustment:	0 to 60°
Blade Speed:	125 to 260 FPM
Weight:	45 pounds

GENERAL SAFETY RULES

Safety is a combination of common sense, staying alert and knowing how your item works. **SAVE THESE SAFE-TY INSTRUCTIONS.**

WARNING: To avoid mistakes and serious injury, do not plug in your tool until the following steps have been read and understood.

1. READ and become familiar with this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.

2. AVOID DANGEROUS CONDITIONS. Do not use power tools in wet or damp areas or expose them to rain. Keep work areas well lit.

3. DO NOT use power tools in the presence of flammable liquids or gases.

4. ALWAYS keep your work area clean, uncluttered, and well lit. DO NOT work on floor surfaces that are slippery with sawdust or wax.

5. KEEP BYSTANDERS AT A SAFE DISTANCE from the work area, especially when the tool is operating. NEVER allow children or pets near the tool.

6. DO NOT FORCE THE TOOL to do a job for which it was not designed.

7. DRESS FOR SAFETY. Do not wear loose clothing, gloves, neckties, or jewelry (rings, watches, etc.) when operating the tool. Inappropriate clothing and items can get caught in moving parts and draw you in. ALWAYS wear non-slip footwear and tie back long hair.

8. WEAR A FACE MASK OR DUST MASK to fight the dust produced by sawing operations.

WARNING: Dust generated from certain materials can be hazardous to your health. Always operate the tool in a well-ventilated area and provide for proper dust removal. Use dust collection systems whenever possible.

9. ALWAYS remove the power cord plug from the electrical outlet when making adjustments, changing parts, cleaning, or working on the tool.

10. KEEP GUARDS IN PLACE AND IN WORKING ORDER.

11. AVOID ACCIDENTAL START-UPS. Make sure the power switch is in the OFF position before plugging in the power cord.

12. REMOVE ADJUSTMENT TOOLS. Always make sure all adjustment tools are removed from the saw before turning it on.

13. NEVER LEAVE A RUNNING TOOL UNATTENDED. Turn the power switch to OFF. Do not leave the tool until it has come to a complete stop.

14. NEVER STAND ON A TOOL. Serious injury could result if the tool tips or is accidentally hit. DO NOT store anything above or near the tool.

GENERAL SAFETY RULES

15. DO NOT OVERREACH. Keep proper footing and balance at all times. Wear oil-resistant rubber-soled footwear. Keep the floor clear of oil, scrap, and other debris.

16. MAINTAIN TOOLS PROPERLY. ALWAYS keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.

17. CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Any part that is damaged should be properly repaired or replaced before use.

18. MAKE THE WORKSHOP CHILDPROOF. Use padlocks and master switches and ALWAYS remove starter keys.

19. DO NOT operate the tool if you are under the influence of drugs, alcohol, or medication that may affect your ability to properly use the tool.

20. USE SAFETY GOGGLES AT ALL TIMES that comply with ANSI Z87.1. Normal safety glasses only have impact resistant lenses and are not designed for safety. Wear a face or dust mask when working in a dusty environment. Use ear protection such as plugs or muffs during extended periods of operation.

SPECIFIC RULES FOR BAND SAW

1. To avoid injury from unexpected movement, secure the machine to a bench before operating.

2. The machine must be switched off before inserting materials to be cut in the vise or before removing materials from the vice after cutting operations have been finished.

- 3. Keep your hands and fingers a safe distance away from the blade at all times.
- 4. Never attempt to stop the saw blade by hand.
- 5. Never remove any cutting chips by hand. Use a brush at all times.
- 6. Never remove any safety guards or safety equipment from the saw.
- 7. Never leave the machine during operation.
- 8. Wear eye protection. Do not wear gloves, a necktie, jewelry, or loose clothing during operation.
- 9. Make sure the saw is on a firm, level surface and properly secured.
- 10. Use only the recommended accessories.
- 11. Use extra caution with very large, very small, or awkwardly-shaped workpieces.
- 12. Keep hands away from blade at all times to prevent accidental injury.

ELECTRICAL INFORMATION

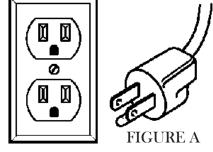
GROUNDING INSTRUCTIONS

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.

DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

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.

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



USE ONLY THREE-WIRE EXTENSION CORDS that have three-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. 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.

WARNING: This tool is for indoor use only. Do not expose to rain or use in damp locations. Guidelines for using extension cords

Make sure your extension cord is in good condition. 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 nameplate ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

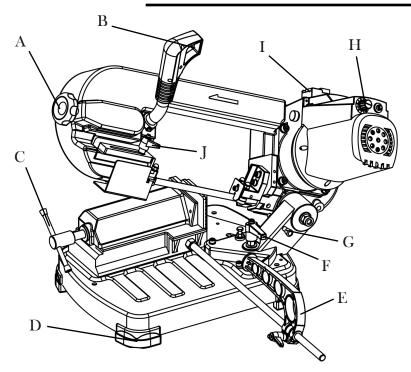
AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS						
AMPERAGE	25 ft.	50 ft.	100 ft.	150 ft.			
4.5 A	18 gauge	16 gauge	14 gauge	14 gauge			

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. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A 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.

WARNING: This tool must be grounded while in use to protect the operator from electric shock.

KNOW YOUR BAND SAW



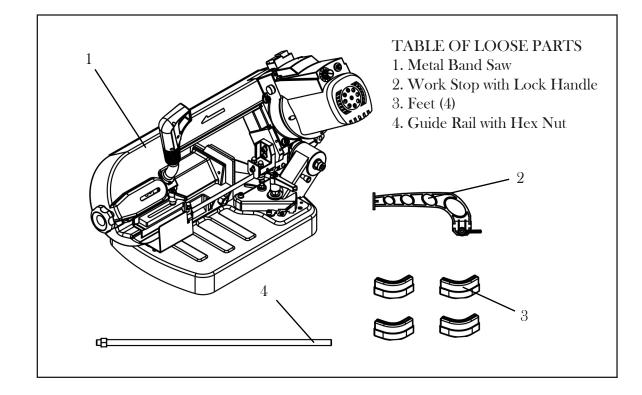
- A Blade Tension Adjustment Knob
- B Run Switch
- C Vise Adjustment
- D Rubber Feet
- E Work Stop
- F Angle Adjustment Lock
- G Locking Pin
- H Variable Speed Adjustment Knob
- I Power Switch
- J Blade Guide Lock

ASSEMBLY

UNPACKING

Carefully unpack the band saw and all its parts, and compare against the list below. Do not discard the carton or any packaging until the band saw is completely assembled.

WARNING: If any part is missing or damaged, do not plug in the band saw until the missing or damaged part is replaced.



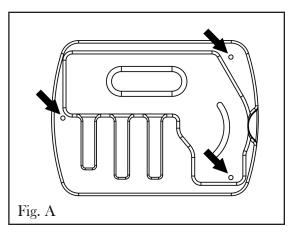
ASSEMBLY AND INSTALLATION

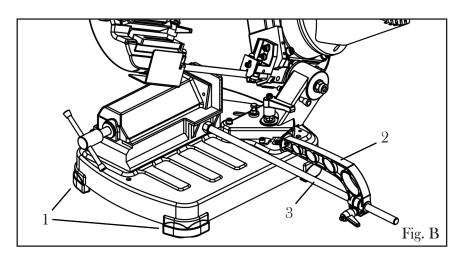
1. Attach the four feet (Fig. B - 1) along each respective corner of the base.

2. Place the machine onto a work bench and secure it in place by using the three holes provided in the base (Fig. A).

3. Screw the guide rail to the threaded hole on the vise base. Tighten the nut to fix it.

4. Attach the work stop (Fig. B - 2) to the guide rail (Fig. B - 3). Secure it in place by tightening the lock handle.





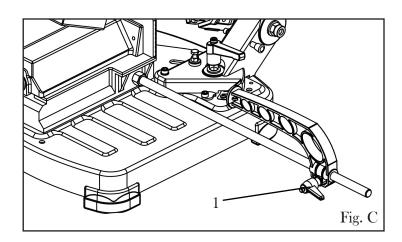
ADJUSTMENTS

POSITIONING THE WORK STOP

If you have to make a series of cuts with a uniform length, use the supplied work stop.

- 1. Loosen the lock handle (Fig. C 1).
- 2. Slide the work lock to the desired distance.
- 3. Tighten the lock handle again.

WARNING: Make sure that the work stop does not interfere with the downward movement of the blade.



ADJUSTMENTS

CUTTING ANGLE ADJUSTMENT

This band saw cuts angles anywhere from 0 to 60 degrees. To make an adjustment to the cutting angle:

1. Loosen the angle lock handle (Fig. D - 1).

2. Turn the swivel support (Fig. D - 2) until the mark on the support matches the desired angle on the scale.

3. Lock the angle lock handle.

SLIDING BLADE GUIDE

The sliding blade guide must be adjusted before every cut to a new workpiece. Without the adjustment, the resulting cut could be unclean and jagged.

1. Loosen the blade guide lock handle (Fig. E - 1).

- 2. Slide the blade guide to move it closer to the workpiece.
- 3. Retighten the blade guide lock handle.

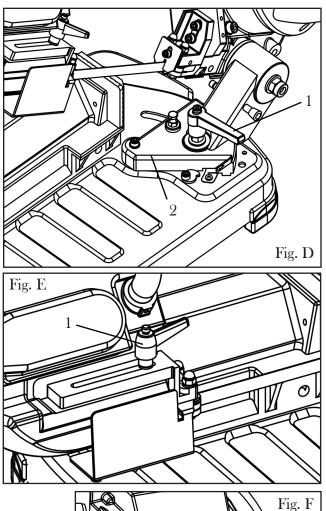
CUTTING SPEED

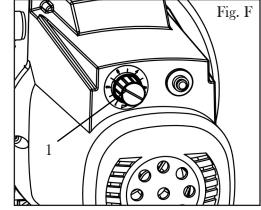
The cutting speed always depends on the material being cut. To select the most suitable speed, turn the control knob (Fig. F - 1) to increase or decrease the speed, with 125 FPM as the lowest setting and 260 FPM the highest.

For common steel, use a speed between 125 and 180 FPM.

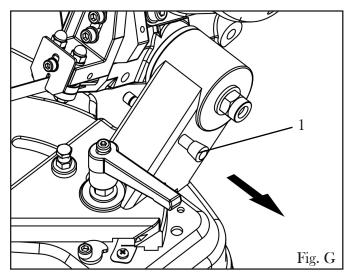
For aluminum or alloy, use the maximum speed of 260 FPM.

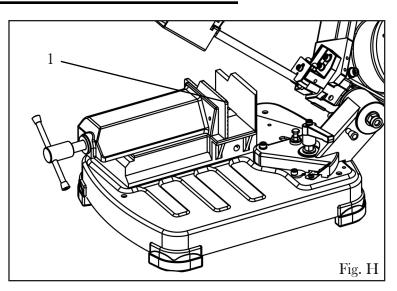
For pipes, use a speed between 220 and 260 FPM.

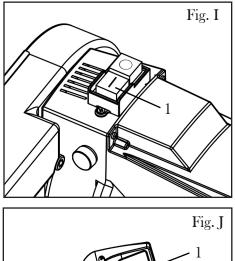




OPERATION







1. Pull out the pin (Fig. G - 1) from the hole in the saw's body and tilt the saw to its upper position.

2. Use the vise to secure the workpiece in place (Fig. H - 1). Adjust the cutting speed to the desired rate.

3. Push the green button to turn on the power of the saw (Fig. I - 1). The blade will not start running until the run button is also activated. Using the index finger of your right hand, press the run button after turning on the saw's power (Fig. J - 1).

4. Once the saw blade has come to full speed, gradually lower the machine's body downwards until the blade comes into light contact with the workpiece. Let the saw blade make a small groove along the workpiece to help ensure a straight cut (particularly with curved or round workpieces).

5. Once initial contact and a groove have been made, apply a small amount of additional pressure to continue the cut.

NOTE: For optimal performance, cutting should only occur for 40% of the overall run time. For example, for every 10 minutes the machine is running, only four of those minutes should be under load in order to maximize the performance of the machine

MAINTENANCE

WARNING: Turn off the machine and disconnect the power supply before conducting any maintenance work or adjusting any settings.

CHANGING THE SAW BLADE

1. Remove the protective casing by unscrewing the six screws shown in Fig. K.

2. Loosen the blade tension by turning the blade tension adjustment knob counterclockwise (Fig. L - 1).

3. Carefully remove the blade, first from the guides and then from around the cast iron pulleys.

4. Insert the new blade, first between the guides and then around the cast iron pulleys.

5. Turn the blade tension adjustment knob to properly adjust the blade tension (Fig. L - 1).

6. Replace the protective casing using the six screws in Fig. K.

7. Reposition the blade guides into their correct position for the next cut.

GENERAL MACHINE CARE

• Routinely check the condition of the power supply cords and replace them if they are broken, worn or if internal wires are showing.

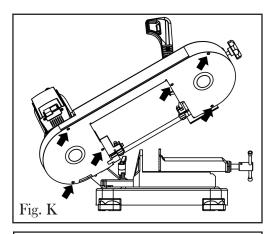
• Use a brush and a shop vacuum to remove chips and other debris from the machine.

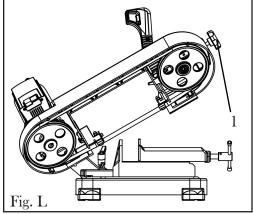
• Always keep the machine hand grip clean to prevent accidental slipping during use.

• Remove the processing residues from the cutting area and the blade guides whenever necessary.

• If you do not intend to use the sawing machine for a long time, clean it and put it in a dry place if possible. In these cases, it is advisable to make sure the blade stays slack so that it is not kept under tension during storage for any reason.

• To ensure effective machine operation, check the condition of the blade daily. Sharpen it as necessary.

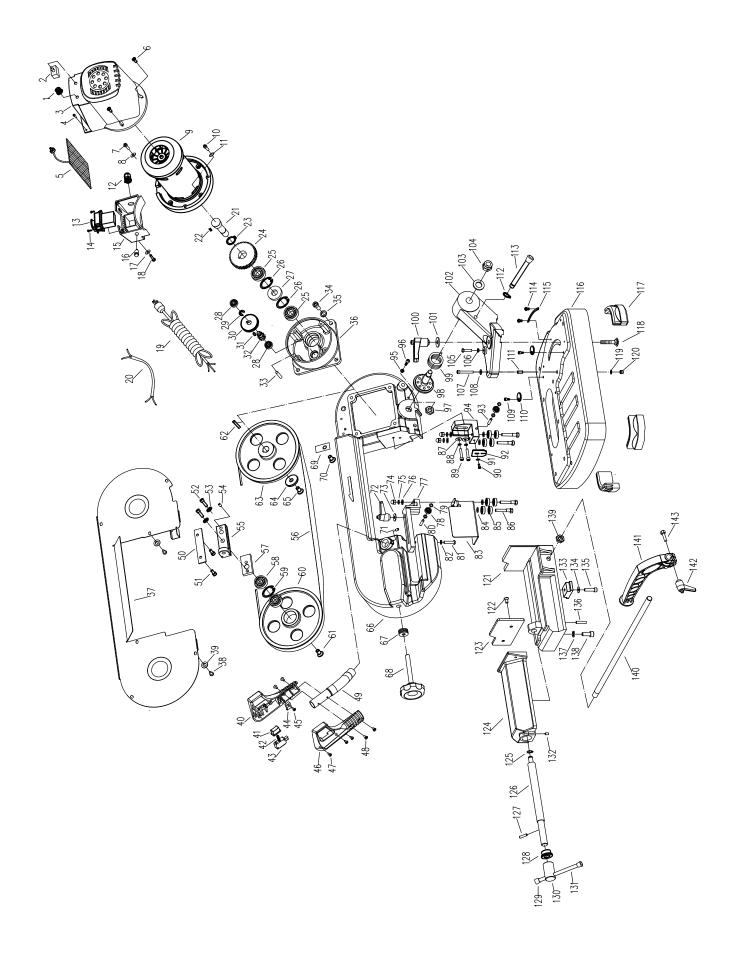




TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The motor does not work.	 Defective motor, power cable or plug. Safety cover is open; interlock switch does not work. 	 Specialized personnel should check the machine. Close the safety cover.
Overload circuit tripped	 Motor overload caused by excessive cutting pressure. Motor breakdown. 	 Perform the cut on the piece at the correct pressure. Specialized personnel should check the machine.
Inaccurate cut squaring	 Excessive cutting pressure. Incorrect blade tooth in relation to the workpiece. Incorrect adjustment of the sliding blade guide. Incorrect cutting speed in relation to work piece. The workpiece is wrongly positioned in the vise. Poor blade tension. 	 Decrease the cutting pressure. Choose the proper blade for the given workpiece. Check the blade guide adjust- ment. Adjust to the correct cutting speed. Check workpiece positioning and clamping in the vise. Check the blade tension.
The blade tends to protrude from the guide.	 Excessive blade tension. Incorrect eccentric blade guide adjustment. The blade slips on the pulleys, due to the oil or grease required for cutting operations. 	 Check blade tension. Check eccentric blade guide adjustment. Never use any type of lubri- cant or coolant for the cutting operations; specialized personnel should check and replace the pul- leys if necessary.

EXPLODED VIEW AND PARTS LIST



EXPLODED VIEW AND PARTS LIST

No.	Part	Description	Qty.	No.	Part	Description	Qty.	No.	Part	Description	Qty.
1	3975-001	Speed adjusting knob	1	49	3975-049	Tube	1	97	3975-097	Nut	1
2	3975-002	Circuit breaker	1	50	3975-050	Guide plate	2	98	3975-098	Center shaft	1
3		Motor housing	1	51	3975-051	Socket head screw	4	- 99	3975-099	Torsion spring	1
4	3975-004	Thread forming screw	2	52	3975-052	Socket head screw	2	100		Lock handle	1
5	3975-005	Motor driver	1	53	3975-053	Lock washer	2	101	3975-101	Flat washer	1
6		Pan head screw	3	54	3975-054	Set screw	1	102	3975-102	Swivel support	1
7		Pan head screw	1	55	3975-055	Sliding block	1	103		Flat washer	1
8	3975-008	Serrated washer	1	56	3975-056	Blade	1	104	3975-104		1
9		Motor assembly	1	57	3975-057	Bevel plate	1	105	3975-105	Hex head bolt	1
10	3975-010	Socket head screw	4	58		Ball bearing	2	106		Nut	1
11		O ring	4	59	3975-059	Retaining ring	1	107	3975-107	Socket head screw	1
12		Strain relief	1	60	3975-060	Rear blade wheel	1	108	3975-108	Flat washer	1
13	3975-013	Switch	1	61	3975-061	Flat head screw	1	109	3975-109	Socket head screw	2
14	3975-014	Thread forming screw	2	62	3975-062	Key	1	110	3975-110	End stop washer	2
15	3975-015	Switch box	1	63	3975-063	Front blade wheel	1	111	3975-111		1
16	3975-016	Indicator light	1	64	3975-064	Flat washer	1	112		Retaining ring	1
17		Flat washer	2	65	3975-065	Flat head screw	1	113			1
18		Thread forming screw	2	66	3975-066		1	114	3975-114	Pan head screw	2
19		Power cord	1	67		Spring washer	8	115		Angle scale	1
20	3975-020	Inner line	1	68		Blade tension knob	1	116		Base	1
21	3975-021	Front wheel shaft	1	69		Cord clamp	2	117	3975-117	Foot	4
22	3975-022	Key	1	70		Pan head screw	2	118	3975-118	Carriage bolt	1
23		Retaining ring	1	71		Set screw	1	119		Flat washer	1
24	3975-024	50T Gear	1	72	3975-072		1	120		Nut	1
25	3975-025	Ball bearing	2	73		Flat washer	1	120	3975-120	Vise base	1
26		Retaining ring	2	74	3975-074	Nut	4	121	3975-121	Flat head screw	2
27	3975-027	Oil seal	1	75	3975-075		4	122		Vise jaw	$\frac{2}{1}$
28		Ball bearing	2	76		Flat washer	4	123		Sliding case	1
29		Retaining ring	1	77		Rear blade guide block	1	124		Retaining ring	1
30		43T Gear	1	78		Ball bearing	2	125		Screw	1
31	3975-031		1	79	3975-079	Flat washer	4	120	3975-120	Spring pin	1
32		Pinion gear	1	80	3975-080	Pin	1	127		Bushing	1
33	3975-033	Spring pin	1	81	3975-080	Socket head screw	1	120		Handle cap	$\frac{1}{2}$
34	3975-034	Socket head screw	4	82		Lock washer	1	129		Socket rod	$\frac{2}{1}$
35		Lock washer	4	83		Blade guard	1	130		Handle rod	$\frac{1}{1}$
36	3975-036		1	84	3975-083	Flat washer	4	131 132			1
37		Frame cover	1	85	3975-084	Ball bearing	4 8	132			
38		Pan head screw	6	86	3975-085	Shaft	0 4	133		Guide block Lock washer	1
39		Flat washer	6	87	3975-080	Shan Flat washer	4				1
40		Left handle part	1	87	3975-087	Flat washer Lock washer		135		Hex head bolt	1
40	3975-040	Button	1	88	3975-088		$\frac{2}{2}$	136		Spring pin	2
42	3975-041	Spring	1		3975-089	Socket head screw		137		Lock washer	6
42		Operating switch	1	90		Socket head screw	1	138		Socket head screw	6
43		Cord clamp	5	91	3975-091	Flat washer	1	139		Nut	1
$\frac{44}{45}$		Pan head screw	$\frac{5}{5}$	92	3975-092	Guard plate	1	140		Work stop rod	1
45		Right handle part	$\frac{3}{1}$	93	3975-093	Pin	1	141		Work stop	1
40		Thread forming screw	1 3	94	3975-094	Front blade guide block	1	142		Lock handle	1
47	2075 047	Flat head screw	4	95	3975-095	Nut	1	143	3975-143	Hex head bolt	1
40	0373-040	That HEad SCIEW	<u>'</u> t	96	3975-096	Hex head bolt	1				

LIMITED TWO YEAR WARRANTY

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

LIMITED WARRANTY OF WEN CONSUMER POWER TOOLS 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 for a period of two (2) years from date of purchase. Ninety days for all WEN products, if the tool is used for professional use.

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 repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. 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. Third party vendors such as garage sales, pawn shops, resale shops, or any other secondhand merchant void the warranty included with this product. Contact techsupport@wenproducts.com or 1-800-232-1195 to make arrangements for repairs and transportation.

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 warranty card and/or 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.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME INCLUDING BELTS, BRUSHES, BLADES, ETC. ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO ONE (1) YEAR FROM DATE OF PURCHASE. SOME STATES IN THE U.S., SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAM-AGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CON-SEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO PORTABLE ELECTRIC TOOLS, BENCH POW-ER TOOLS, OUTDOOR POWER EQUIPMENT AND PNEUMATIC TOOLS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUP-PORT LINE.