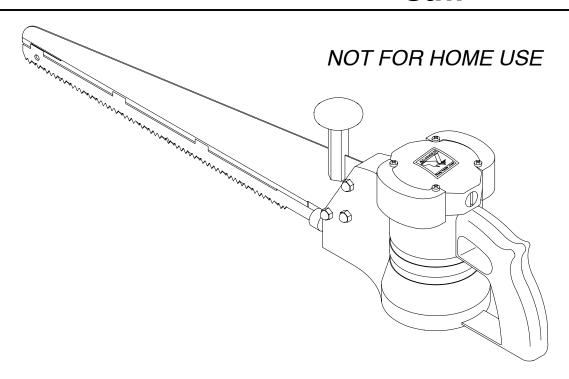


Model 400 Wellsaw Air Powered Reciprocating Saw



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SAFETY MESSAGES TO EMPLOYER AND SAFETY DIRECTOR

AVOID INJURY

- 1. Ensure that employees wear eye protection in accordance with OSHA's eye and face protection requirements (29 CFR 1910.133) at all times.
- 2. Follow our installation and maintenance instructions for proper installation and care of the tool.
- **3.** Enclosed are four (4) copies of "NOTICE TO OPERATORS, MAINTENANCE AND CLEAN-UP PERSONNEL." Post one copy on the employees' bulletin board; give one copy to operator(s); give one copy to the maintenance foreman; and give one copy to the sub-contract cleanup / internal cleanup foreman. Additional copies will be provided upon request.
- **4.** The tool is designed and intended to be powerful. That fact should be obvious to your employees, but you must emphasize it to them.
- **5.** Always disconnect the tool from its power supply when it is not in use.
- **6. Ensure** that all employees who use this tool are trained in the proper use of this tool and are aware of the dangers that may arise if they do not follow the procedures outlined in this brochure.
- 7. Hand/Wrist/Arm injury and other Cumulative Trauma Disorders may result from repetitive work, motion or vibration. You must make your employees aware of hazards, symptoms of injury and appropriate prevention. See OSHA's "Ergonomics Program Management Guidelines for Meatpacking Plants."
- **8. Remove** and **repair** any tool that malfunctions. **All** personnel must be instructed to remove any malfunctioning equipment.
- **9.** Never make modifications or alterations to the tool. *Replace any missing or illegible labels.*
- **10.** Avoid injury. Do not permit the tool to be misused.
- 11. If you resell or distribute a Jarvis product, you must provide the purchaser with the appropriate safety sheets and tool brochure. Additional copies of safety sheets and tool brochures will be provided upon request.



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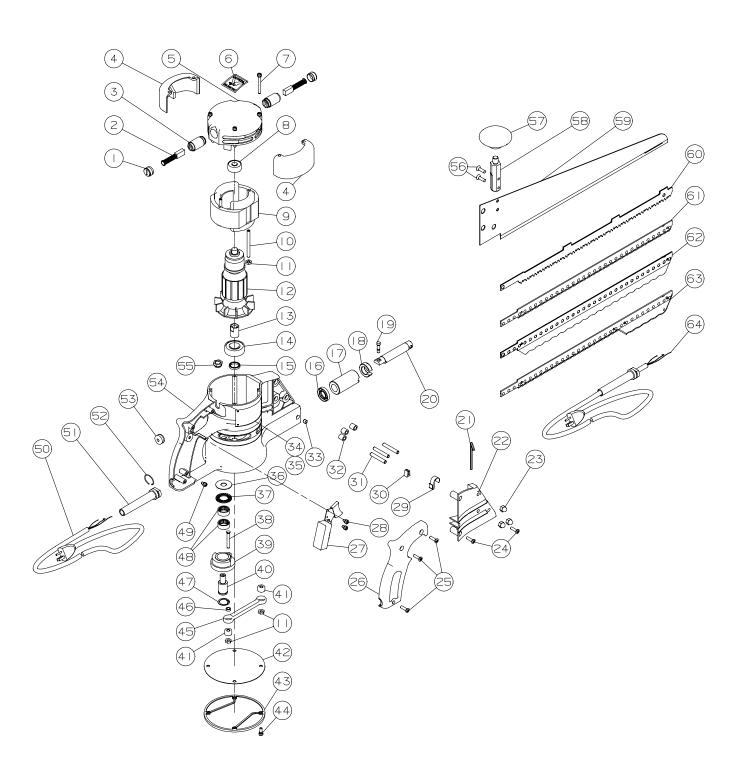
SAFETY MESSAGES TO OPERATORS, MAINTENANCE AND CLEANUP PERSONNEL

REMOVE ANY MALFUNCTIONING TOOL FROM SERVICE REPORT ANY PROBLEMS TO YOUR SUPERVISOR

- **1. Disconnect** the power supply in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before changing the blade.
- **2. Disconnect** the power supply in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any repair or maintenance.
- **3. Disconnect** the power supply or have the power supply disconnected in accordance with OSHA's lockout/tagout procedures (29 CFR 1910.147) before performing any cleanup.
- **4. Disconnect** the power supply when the tool is not in use.
- **5. Always** wear eye protection in accordance with OSHA's eye and face protection requirements (29 CFR 1910.133), and when needed, a dust mask.
- **6. Do not** operate near flammable liquids or in gaseous atmospheres.
- **7. Do not** operate in outdoor locations or in damp or wet locations.
- **8. Do not** overreach; keep proper footing and balance when using the tool.
- **9.** Never put fingers, hands or other parts of the body on the cutting edge of the blade or in the cutting path.
- 10. Always use both hands when starting and operating the tool to avoid the risk of possible "kick back" or "recoil." Continue holding the tool with both hands until the saw blade comes to a complete stop.
- 11. **Test** the tool prior to use or daily. **Depress** the trigger and the tool <u>should</u> start. **Release** the trigger and the tool <u>should</u> stop. *If the tool malfunctions, remove it from service and report or repair it immediately.*
- **12.** Never depress the trigger unless you are going to use or test the tool.
- **13.** Never make any alterations to the tool. <u>Report</u> or <u>replace</u> any missing or illegible labels.



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Г	— Т.	JARVIS PART NO.	OLD PART NO.	PART NAME	QT\
-	1	1063112	501022-005	Brush Cap	2
	2	1063111	501022-004	Brush and Spring	2
	3	1063110	501022-003	Brush Holder	2
	4	1015006	501174	Deflector	2
	5	1002191	501002	Тор Сар	1
	6	1017083		Danger Label	1
	7	1055428	100101-004	Screw, Flat Head Phil	4
	_	1055427	100101-002	Screw, Set of 12	١.
	8	1021215	100243-003	Ball Bearing	1
'	9	1063119 1063120	501224-003	Stator 115V Stator 230V	1 1
1	Λ	1003120	501224-004 501021	Stator Stud	2
1		1027040	100105-001	Locknut	4
1		1063117	501224-001	Armature 115V	1
'	_	1063118	501224-002	Armature 230V	Ιi
1:	3	1026072	501225	Pinion Gear	1
1.	4	1021227	100422-004	Ball Bearing	1
1:	5	1035193	501120-001	Seal	1
1		1035192	501103	Seal	1
1		1036116	501171	Bushing	1
1		1036117	501186	Bushing Spacer	1
1 2		1027041 3065009	501046 501058	Rod Stud Push Rod and Stud	1
2		8030031	100099-001	Hex Key	
2		1002192	501003	Blade Support Cover	
2		1007162	100022-006	Cap Nut	6
2		1055439	100102-002	Screw, Oval Head Phil	2
2	5	1054076	501380	Coated Screw	3
2	6	1002203	501004-002	Handle Cover	1
2		1005038	100739-001	Switch	1
2		1073190		Screw, Round Head	2
2		1012046	501042	"S" Clip	1
3		1012047 1027048	501043 501272	"U" Clip (rubber) Stud	1 3
3		1027046	501272	Insert	3
3		1055424	100035-002	Set Screw	1
3		1017030	501023	Info Label 115V, English	1
		1017031	501084	Info Label 230V, English	1
		1017052		Info Label 115V, French	1
		1017235		Info Label 230V, French	1
3	5	1054173		Label Retaining Screw	4
_	_	1045013	100131-001	Label Retaining Rivet	4
3		1004149	100426-001	Thrust Bearing Race	1
	7 8	1021218 1027043	100425-001 501081	Needle Thrust Bearing Drive Stud	1 1
3		3026024	501223	Gear and Drive Stud	
4	_	1020133	501377	Gear Stud	Ιί
4		1021228		Needle Bearing	2
4		1035191	501008	Gasket	1
4		1002193	501005	Bottom Plate	1
4	4	1055452		Screw, Flat Head Phil	4
	_	1055426	100101-001	Screw, Set of 12	
4		3028030	501053	Connecting Rod & Brgs	1
4		1029185	501082	Spacer	1
4		1013310	100069-013	Snap Ring	1 2
4		1021216 1055454	100424-001	Needle Bearing Screw, Round Head	1
5		3001011	501337	Cord without Strain Rel	
5		1063125	501294	Strain Relief	Ιί
	•	7000120	1001201	23	

IT.	JARVIS PART NO.	OLD PART NO.	PART NAME	QTY
52	1013137	501295	Clamp Ring	1
53	1063109	100647	Grommet	1
54	1016213	501001-005	Housing	1
55	1007166	501376	Gear Stud Nut	1
56	1055429	100102-003	Screw, Oval Head Phil	2
57	1006021	501066	Knob	1
58	1027042	501065	Handle Stud	1

blades, blade supports and accessories

IT.	JARVIS PART NO.	OLD PART NO.	PART NAME	QTY
59	1058065	501007T	Blade Support 8 inch	1
	1058069	501071	Blade Sup. 8" depth gage	1
	1058066	501058T	Blade Support 16 inch	1
	1058097		Blade Support 24 inch	1
60	1023122		Blade, 8 inch (4 TPI)	1
	1023121		Blade, 16 inch (4 TPI)	1
61	1023125		Blade 8 inch (8 TPI)	1
	1023126		Blade 8 inch (12 TPI)	1
	1023127		Blade 16 inch (8 TPI)	1
62	1023128		Blade 8 inch (knife)	1
	1023129		Blade 16 inch (knife)	1
	1023166		Blade 24 inch (knife)	1
63	1023120		Blade 16 inch (combo)	1
		501352-002	= -	
	1062003		Gear Grease, 1 Lb Can	1
	1062023		Blade Grease,Tube	1

replacement kits

IT.	JARVIS PART NO.	OLD PART NO.	PART NAME
	3063010	501351-001	Armature & Bearing without Pinion Gear 115V
	3063011	501351-002	Armature & Bearing without Pinion Gear 230V
	3063007	501235-001	Armature & Bearing with Pinion Gear 115V
	3063008	501235-002	
	3063013	501232	Armature & Pinion 115V
	3063014	501233	Armature & Pinion 230V
64		501006	Cord & Molded St Rel 115V
64	3001010 3026023	501089 501088	Cord & Molded St Rel 230V Gear & Bearing Assembly
	3026023	501168-001	Housing, Seals & Bushing
	3061530	001100-001	Service Kit (items 11, 13,
			27, 33, 38 and 42)



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SPECIFICATIONS

Motor Power	1 hp	745 W
Operating Volt/Amp	230V/3.5A, 1 pl	hase, 50/60 Hz
	115V/7A, 1 pl	hase, 50/60 Hz
Stroke	1.13 in	29 mm
Blade Speed	800	0 strokes / min
Control Handle	Single Trigger	Electric
Blade Length	8 in	203 mm
	16 in	406 mm
Overall Length (16 in	blade) 32 in	813 mm
Weight (without blade	e) 9.8 lbs	4.5 kg

INSTALLATION INSTRUCTIONS

These instructions have been prepared to assure you of satisfactory operation through proper use of your **Jarvis** Wellsaw.

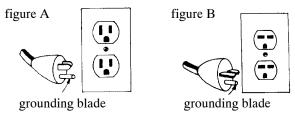
Read them carefully and keep them for future reference.

POWER SUPPLY

Your **Jarvis** Wellsaw operates on 50 or 60 Hz., single phase alternating current. Its voltage rating is indicated on the name plate (either 115 or 230 Volt). If an extension cord is to be used, be sure that the wire size is adequate to maintain full line voltage to the tool.

GROUNDING

Your **Jarvis** Wellsaw should be grounded to prevent the user from electric shock or *electrocution*. The **Jarvis** Wellsaw is equipped with an approved three conductor cord and three prong grounding-type plug to fit the proper grounding-type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal. If your **Jarvis** Wellsaw is the 115 volt model, it has a plug that looks like figure "A". If your **Jarvis** Wellsaw is the 230 volt model, it has a plug that looks like figure "B".



Do not use any adapters with the **Jarvis** Wellsaw.



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 **Jarvis** Wellsaw 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 use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Minimum Wire Gage for Extension Cords

Volts	To	Total Length of Cord in Feet			
120	0-25	26-50	51-100	101-150	
240	0-50	51-100	101-200	201-300	
Amp Rating		Wire Size (AWG)			
Amp Ratio	ng	Wire Siz	ze (AWG)		
Amp Ratio	ng 18	Wire Siz	ze (AWG) 16	14	

When tool is used outdoors, use only extension cords labeled for outdoor use.

OPERATION INSTRUCTIONS

Before starting regular operation of the **Jarvis** Wellsaw, we recommend that you make a few cuts with a fine pitch blade to acquaint yourself with the operation of the tool before using any of the coarser blades.

A. AVERAGE CUTTING AND RIPPING:

- 1. Place your work piece on a solid support at a convenient working height.
- 2. Adjust the material so that the line of cut will be close to the support. Secure it firmly.
- 3. To prevent starting torque of the motor from pulling the saw away from line of cut, the operator should make a few short strokes until the blade has cut into the material about 1/4 inch before squeezing trigger switch.
- 4. Both hands should be on the saw at all times while cutting. Continue holding the tool with both hands until the saw blade comes to a complete stop.
- 5. The saw should be kept at a 90 degree angle to the work piece while cutting material that is thicker then 1 inch. For thin materials a 12-tooth blade and a 30 degree cutting angle are recommended.

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- 6. The saw should be pushed firmly into the material while cutting.
- 7. Do not allow the saw blade or the blade support to leave the work piece while cutting.
- 8. Never allow the saw blade to float into material while cutting.
- 9. Never permit any part of the saw, except the blade or the blade support, to contact the work piece during the cut.

B. LARGE CROSS SECTIONS:

1. Rocking the saw in the cut will speed up the cutting action. An 8 tpi (tooth per inch) blade is recommended.

C. SINKING THE BLADE THROUGH A SUR-FACE:

- 1. Your power hand saw is <u>not designed</u> for regular use in starting its own hole by sinking blades through a surface, commonly called "plunge cutting". If attempted, the operator must:
 - a. Keep the saw blade as parallel to the work as possible.
 - b. Immediately, as the blade makes contact with the work piece, start to draw the saw back slowly from the starting point.
 - c. Repeat the operation outlined in "b", if necessary.
 - d. Have room to draw the saw at least 4-6 inches before cutting through a 1 inch thickness
 - e. Do not force the saw blade, but keep it moving slowly on the draw back from the starting point. After the break through cut has been made and the end of the blade support extends through the material at least 1-1/2 inches, the saw may be tipped to a normal cutting angle.

D. NOT FOR CUTTING METAL:

- 1. Due to the blade speed and design, your **Jarvis** Wellsaw is not for cutting metal.
- E. NOT FOR CUTTING SMALL RADII:
- F. HEAVY & CONTINUOUS WOOD CUTTING:

- For heavy or continuous wood cutting, lubricate the blade grove with oil or **Jarvis** Wellsaw lubricant 1062023.
- When cutting wet or gummy wood or other material where there is a tendency for a deposit to build up on the sides of the blades, use a 50-50 mixture of kerosene and lubricating oil and place it on the sides of the blade and the blade support.

G. ALWAYS KEEP A SHARP BLADE ON THE SAW:

- Cutting with a dull or badly worn blade can overload the saw and cause damage from overheating.
- 2. New blades can be purchased from **Jarvis**.

MAINTENANCE INSTRUCTIONS

Always disconnect the saw from its power supply before performing any maintenance.

Item numbers: refer to the parts diagram on page 4.

A. LUBRICATION:

1. The gear case should be kept 1/3 full of grease. To check the grease level, remove the bottom plate (item 43) and its gasket (item 42). It should be checked every thirty days for saws that are used moderately and every two weeks for saws that are used daily. If replacement grease is required it should be obtained from **Jarvis**.

B. BLADE SUPPORT INSTALLATION:

- 1. Tap (3) inserts (item 32) gently into the bores on blade support cover (item 22).
- 2. Align the blade support cover (item 22) onto saw housing (item 54), making sure the inserts stay in place.
- 3. Assemble (3) studs (item 31) with cap nuts (item 23) and place them through the saw housing and the blade support cover.
- 4. Draw down all (3) cap nuts evenly until the inserts are bottomed out into the saw housing.



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- 5. Remove the cap nuts and the blade support cover. The inserts should now be properly set into the saw housing.
- 6. Assemble blade support (item 59) over the inserts on the saw housing. Place the blade support cover on the saw housing and fasten with the studs, the cap nuts and oval head screws (item 24).
- 7. Install handle stud (item 58) using two larger oval head screws (item 56).

C. BLADE REMOVAL:

NOTE: Your **Jarvis** Wellsaw is equipped with a hex key (item 21) for removing the blade. This wrench is located in the housing directly behind the blade support knob (item 57).

- 1. Insert the hex key through the hole in the outer end of blade (item 60, 61, 62 or 63) and pull the blade to the outer end of stroke.
- 2. Loosen the blade holding set screw (item 33) about 1/2 turn.
- 3. Reinsert the hex key in the hole at the outer end of the blade and pull the blade out.

D. BLADE INSTALLATION:

- 1. Insert hex key (item 21) into set screw (item 33).
- 2. Fasten the set screw (through the hole in housing) into the hole in the end of push rod (item 20). The hole in the housing must be aligned with the hole in the push rod for the set screw to be fastened. (It may be necessary to turn the armature fan to adjust the push rod properly). Do not tighten.
- 3. Align blade (item 60, 61, 62 or 63) with blade support (item 59). The blade should extend approximately 3 inches from the end of the blade support.
- 4. <u>Slide</u> the blade onto the blade support until the crimp in the blade is touching the end of the blade support.
- 5. Use a rubber hammer and tap the end of blade towards the body of the saw until the crimp in the blade slides into the slot in the blade support.
- 6. Slide the blade into the push rod as far as it will go.
- 7. Tighten set screw (item 33) with the hex key.

The set screw must be fully tightened before running the saw or damage to the saw will occur.

E. GENERAL DISASSEMBLY:

- 1. Remove blade (item 60, 61, 62 or 63) and blade support (item 59).
- 2. Remove handle cover (item 26).
- 3. Remove switch (item 27). Remove the two wires from the stator (item 9) and the two wires from the cord (item 50).
- 4. Remove brush cap (item 1) and brushes (item 2).
- 5. Remove deflectors (item 4).
- 6. Remove top cap (item 5) stator (item 9) and danger label (item 6) will be attached.
- 7. Remove armature (item 12). Hold the armature in one hand and tap housing (item 54) with a rubber hammer with the other hand to loosen the armature. (Pinion gear item 13 on armature has a left hand thread).
- 8. Remove bottom plate (item 43) and gasket (item 42).
- 9. Insert a small block of wood between the connecting rod (item 45) and the housing (item 54) to stop the rotation of the connecting rod. Remove lock nuts (item 11). Remove the connecting rod and bearings (item 45) and spacer (item 46).
- 10. Using a 5/16 inch hex key, loosen gear stud (item 40) *left hand thread*. Be sure not to spin gear stud nut (item 55). Remove items 36-40, 47 and 48.
- 11. Remove the push rod and stud (item 20) through the center of the housing.
- 12. Clean the gear housing cavity to remove any contaminated lubricant.
- 13. Remove and replace any faulty parts and reassemble by reversing these steps.

NOTE (when reassembling):

- a. Step 10: Use *Loctite 271* on gear stud nut (item 55) before fastening gear stud (item 40).
- b. Step 7: Reassemble armature (item 12) in housing (item 54) by using a center punch to tap the armature until its bearing is fully seated.

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