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OPERATING INSTRUCTIONS AND PARTS LIST FOR

JIG SAW

- MODEL NUMBERS -103.0403 103.0404

This is the model number of your Jig Saw. It will be found on a plate on the front of the base. Always mention this model number when communicating with us regarding your Jig Saw or when ordering parts.

This list is valuable. It will assure your being able to obtain proper parts service at all times. We suggest you keep it with other valuable papers.

SEARS, ROEBUCK and CO.

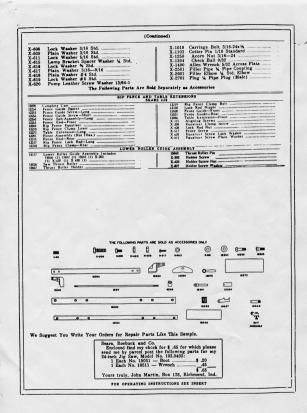
HOW TO GRDER PARTS FOR
SEARS 24 INCH JIG SAW MODEL NUMBERS 103,0403 OR 103,0404 When ordering
repair parts, always give the following information:
1. The Part Number in this List.
1. The Part Number in this List.
1. The Model Number, which is 100,040 or 100,040 and will be found on a plate in the right hand corner on the from of the base X-1125 0 Jun-

PARTS LIST

This Sheet is Intended for Instruction and Repair Parts only and is not a Packing Slip.
The Parts Shown and Listed may include Accessories Not Necessarily Part of This Tool.
All Parts Are Shipped Prepaid

All prices are subject to change without notice.

Part	Name of Part	Part Numbe	Name of Part
Number	Name of Part		Motor Adjusting Bracket Thumb
		15114	
186-18	Protractor Clamp Pin Spring	15123	Tensioner Screw Crank Assembly .
86-25	Shaft Collar Assembly		Tensioner Collar
92-36	Wrench	15129	Pump Tube Assembly Complete
899	Motor Support Clip	15138	Crank Case Assembly Complete Include
0511	Protractor Lock Wrench	15139	
2321	Protractor Clamp Nut		Pump Tube Clamp Knob Assembly Includes 15141 (1), 15142 (1) Pulley Shaft and Crank Assembly
2455	Chuck Housing-Lower	15143	rump rube Clamp Knoo Assembly
2456	Blade Centering Cover		Includes 15141 (1), 15142 (1)
2457	Socket Head Clamp Screw	15145	Lamp Assembly Complete
2460	Chuck Assembly—Lower Slotted Head Set Screw	15151	Socket, Cord and Plug
12462	Slotted Head Set Screw	15154	Complete Upper Head Assembly (Not
2464		15155	Illus.)
2504	Table Insert		Lamp Bulb
12512	Chuck Jaw Housing Lock Nut	15159	Lamp Bulb
3030		15161	Lamp Bracket
13035	Table Protractor Guide Screw, Short	15162	Upper Guide Tube Spacer
3041	Protractor Scale	15163	Chuck Housing—Upper
4021	Table Protractor Clamp, Rear	15164	Chuck Assembly-Upper
4048	Mitre Gage Pointer	X-814	Pulley Shaft Bearing
4069	Protractor Clamp Pin-Rear	X-1125	Jig Saw Blade—5" Length 15 teeth per inch—Purchase from
4082	Mitre Gage Plunger Assembly	1	15 teeth per inch-Purchase from
5001	Rese		
5002	A rm	X-1455	V Belt 1/2" x 32" - Purchase from Div. 9
5003	Tuble		in nearest retail store
15007		X-2407	Boot Lock Washer & Shakenroof
15008	Lower Guide Rod Bracket	THE	FOLLOWING PARTS ARE STANDA
15009	Voke		ND CAN BE PURCHASED LOCALLY
15011	Yoke Pin	X-109	Tensioner Collar Set Screw 3/16-24x %
5017	Crank Case Cover	X-111	Collar Set Screw 14-20x 14
15018		X-131	Motor Pulley Set Screw 4-20x 4 sq. h
15022	Pump Tube	X-132	Driven Pulley Set Screw 5/16-18x%
15022	Pump Tube Cap	X-135	Driven Pulley Set Screw 5/16-18x 4
15023	Pump Leather	X-138	Yoke Set Screw 5/16-18-14 Sq. Hd
15024	Pump Leatner	X-146	
15025	Pump Spring Upper Guide Tube Assembly	X-201	Crank Case and Guide Rod Bracket
15030		A-201	Screw 14-20-14
15031	Pump Tube Support Pilot	X-202	Thrust Roller Guide Support Screw
15032	Pump Tube Support Pilot Lock Screw	A-LUL	¥-20-1 **
15033	Pump Tube Support Filot Lock Serew	X-205	Table Mounting Screw 5/16-18-%
15034	Saw Guide Rod Thrust Roller Holder Guide	X-208	Table Support Mounting Screw
15035	Thrust Roller Holder Guide	A-400	
15036	Saw Thrust Roller	X-211	Hold Down Spring Screw 4-20-16
15037	Thrust Roller Holder		Motor Rail Clip Screw 14-20-16
15038	Hold Down Spring	X-221 X-224	Thrust Roller Holder Guide Screw
15043	Thrust Roller Pin	X-224	4-20-1 %
15044	Crank Case Gasket	V 000	Pump Tube Support Pilot Screw
15049	Boot Spring	X-228	%-16-2 '4
15050	Protractor Lock Plunger Housing	W 001	Thrust Roller Holder Sc. 14-20-14
		X-231	Motor Support Screw 5/16-18x1 1/2
15051		X-310	Table Protractor—Lock Screw 4-24x
15053		X-316	Table Protractor - Dock Screw Wash
15054	Jig Saw Pulley Thrust Roller Holder Support	X-417	Motor Support Screw Nut 5/16-18
15055	Thrust Roller Holder Support	X-420	Roller Holder Guide Sc. Nut 14-20
15056		X-421	Motor Rail Clip Screw Nut 14-20
15059		X-432	Protractor Guide Screw Nut 14-24
15066		X-433	Protractor Scale Nut #4-40
15072		X-511	Pump Leather Retaining Screw
			#10-24x 1/4
15075		X-512	Protractor Pointer Screw #8-321%
15076		X-523	
		X-524	
15078		X-540	
15085	rump rube Assembly	1 2.010	
15087	Arm Stud Assembly	X-601	Plain Washer 5/16 Std.
15088	Protractor Guide teamble	X-605	Lock Washer & Std.
15107	Arm Stud Assembly Protractor Guide—Rear Lower Guide Rod Assembly	X-606	Lock Washer & Std
15109		X-607	Plain Washer & Std.
15112	Table Support	X-001	(Continued on next page)



OPERATING INSTRUCTIONS FOR 24 INCH JIG SAW

LUBRICATION

To prepare for shipping, the oil has been removed from this tool. Do not run until refilled with a good grade of oil similar to S.A.E. No. 30. To refill, remove the pipe plug from filler pipe in front of crank case and nour in SLIGHTLY LESS THAN ONE PINT OF OIL.

THIS FILLING OF OIL SHOULD LAST INDEFINITELY, BUT IF MORE OIL IS ADDED, POUR IN ENOUGH TO HAVE IT JUST VISIBLE AT THE BOYTOM OF THE FILLER PIPE.

Any oil in excess of the above amount will be wasted as same will pass from crank case either through breather hole or vents around piston rod until required level is reached. The crank case mechanism and main bearing are lubricated by means of an oil pressure system. The pressure is produced by a simple pump arrangement in combination with the mechanism in crank case which pumps and forces the oil from the bottom of the crank case to all parts requiring lubrication in the crank case.

The square upper pump piston rod should be oiled or greased and a few drops of oil should be applied through

the hole in the pump tube cap occasionally. Periodic ercasing of the table trunnions is recommended.

REASSEMBLY INSTRUCTIONS

This ile saw has once been completely assembled at the factory and to avoid breakage through rough handling while in transit the table has been removed.

Looking at the under side of this table you will note that one pair of trunnion bosses is close to one edge of the table. To reassemble table, place the table on the trunnions with those bosses toward the back.

The four mounting screws are in the cloth has. Place the plain washer next to the trunnion boss, then the lock washer before tightening screws.

To raise or turn this tube loosen the clamp bolt and move the assembly by hand.

The blade has been pushed up into the upper chuck to avoid breakage.

CAUTION. For shipping purposes the upper pump tube assembly has been lowered and the clamp bolt tight-

Do not turn pump tube with WRENCH OR PLIERS.

SPEEDS The large pulley is mounted with large diameter next to the crank case and the small pulley is mounted on

a 1750 R.P.M. motor with the small diameter adjacent to the motor. This will give approximate speeds of 1750-1284-926 and 657, 926 and 1284 are the recommended speeds. A 1/3 horsepower motor is recommended for this PULLEY ON CRANK CASE MUST RUN IN DIRECTION INDICATED BY ARROW SHOWN ON OUT-

SIDE OF CRANK CASE SHAFT BEARING HOUSING.

MOTOR MOUNTING

The motor mounting is in two parts, the front end being the conventional floating type pivoted in adjustable clips. The rear part has an adjusting screw so weight of motor can be relieved from the belt and bearings.

PUMP MECHANISM

The upper guide tube and pump mechanism is mounted in a housing which is fastened in the overarm by means of taper pointed screws which register against the angular surfaces of a groove in a pivot pilot which is bolted to the housing.

Loosening the screws permits the entire arsembly to be turned radially. Removing the screws permits the removal of the assembly. Air for blowing dust away from the work is provided through a tube concealed in the pump tube. Additional air is exhaurted through chuck jaws in upper guide tube.

The graduations on the pump tube signify the length of saw blades and the pounds pressure of the spring at the top of the stroke. For example, when using a 5" blade the 5"-61/4 mark should register at the top edge of housing.



For radial alignment the vertical line through graduation on the tube must register with the pointer on support housing located 45° to the right from the front.

Fasten the tube securely in this position. For ripping turn the entire pump tube assembly and saw blade roller guide 90° to the right so that vertical line on the tube lines up with pointer.

JE A 41.4.

JIG SAW WITH TENSIONER-MODEL 103.0404 ONLY

A blade tensioner is provided so that correct tension can be obtained when using various sizes of blades,

Tension can be varied with blade in place and while machine is in operation.

Improper tension will cause vibration which will disappear when correct point is reached. To increase or decrease the tension of the saw blade, loosen pump tube clamp screw and turn boll crank to

the right or left. Lock clamp screw when desired tension is reached,

SAW BLADE BOLLER GUIDE AND HOLD DOWN SPRING To move roller guide toward and away from the saw loosen bolt A in Fig. 2 and slide the assembly to the desired position. To move the roller laterally loosen the bolt B and slide the roller and hold down spring to the errorve selected.

TO CHUCK SAW BLADES

1. Place blade in the lower chuck and tighten socket head clamp screw.

2. Turn drive pulley until the lower chuck is raised to its highest position.

3. Loosen pump tube clamp scrow and set pump tube at proper position for length of saw blade bring insert-

4. While in this position insert blade in upper chuck by pulling down upper chuck slightly and tightening the clamp screw.

5. Turn pulley over by hand to make certain that the spring in head is under tension at the top of stroke. Pailure to observe this condition will result in pounding. Install blade with cutting teeth pointing downward

Blade will work best with cutting edge square with table.

Maximum thickness to cut with 5" blade is "4". For thicker material use longer blades and raise pump tube. Blades up to 10" long can be used without changing the setting for 5" blades, but the blade murt be put through the upper chuck starting from below the table through the table insert.

The round shank files to be used in this machine, listed in the Sears Power Tool Catalog, are held in the lower chuck. To insert a file remove the chuck screws and lift off the blade centering cap. Place file in chuck and fasten securely by tightening slotted set screw only against the file shank. The table may be tilted to file angles or to correct for any bow in the file.

TABLE

To tilt the table unlock the front trunnion by pulling the lever wrench on to hoxagon nut. Loosen. Pull plunger stop for important angular positions, intermediate angles must be lined up with the pointer, Relock with lever wrench on nut. The pointer on the graduated protractor is adjustable if necessary to correct any error on protractor with the table top.

OVERARM

Marks on the top of the overarm and pump tube housing at the joint permits the entire housing assembly to be returned to its normal alignment.

Overarm is pivoted at the rear of the base so it can be swung to the right or left or entirely removed by loosening the stud which clamps it to the base. The distance from the center of the saw to the inside of arm permits full 24" cuts

At the overarm pivot joint at the rear end of the base a mark determines the normal sawing alignment of the arm.

RUBBER MOUNTING INSULATORS

Place one in each cored recess on the inside corners of base. These rubbers will help to level your saw and deaden sounds which may be transmitted through your mounting stand or bench. SABRE SAWING ACCESSORY

Loosen blade in upper chuck. Remove roller guide and hold-down spring by taking out the screw at the bottom. Loosen acorn nut on rear of upper arm and move arm to either side. Tilt table to the left 45°. With long serew through slot, line up roller guide with small support casting (Part No. 15055) included with extra part.

Fasten this assembly to boss underneath the table and behind the blade. Return table to horizontal position.

ADDITIONAL ACCESSORIES AVAILABLE FENCE AND TABLE EXTENSIONS

Provision is made in the ends of the table for attaching fence guide, and extensions for the front and sides of the table. These extensions increase the table size from 14-8/16" square to 18-3/16" x 25-1/2". The table space in front of the saw is increased from 7-4" to 11-4".