

# **EB-24**



***EXTREMA MACHINERY COMPANY, INC.***

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***P.O. BOX 1450, ALBANY, LOUISIANA 70711***

***(877) 398-7362 FAX (225) 567-2966***

## **GENERAL SAFETY RULES**

There is a certain amount of hazard involved with the use of woodworking machinery. Using the machine with the respect and caution demanded as far as safety precautions are concerned will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, severe personal injury to the operator can occur.

1. Read the operation manual before operating this machine.
2. If you are not thoroughly familiar with the machine operation, obtain advice from a supervisor or other qualified person.
3. The machine should be disconnected from the power source before performing maintenance or adjustments to the internal mechanisms, or when making repairs.
4. After maintenance job is finished, check to see if there are any tools or objects left on the machine. Close all safety guards.
5. Before leaving the machine, make sure the work area is clean.
6. Check timber for loose knots, nails, or other items, which may cause a hazard or affect the machine's performance.
7. Learn the machine's applications and limitations, as well as the specific potential hazards peculiar to it. Keep the machine in top condition for best and safest performance.
8. Keep all guards in place and in working order.
9. Do not force the machine. It will do the job better and be safer working at the rate for which it was designed.
10. All children and visitors should be kept a safe distance from the working area.
11. The operator should keep proper footing and balance<sup>3</sup> at all times.
12. Do not operate the machine while under the influence of drugs, alcohol, or any other medication.
13. Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the machine.
14. Never leave the machine until it comes to a complete stop, and never leave the machine running unattended.
15. The employer is responsible for selecting competent and qualified employees.
16. The employer must make sure that employees study and utilize this safety information.
17. Supervisors must alert personnel of any unsafe practices they observe.
18. All employees should be aware of first aid facilities and be encouraged to use them, regardless of the severity of the injury.
19. Fire prevention must be practiced and fire protection must be available to prevent loss of life, personal injury, and property damage.
20. Safety shoes should be worn to provide protection against rolling objects, falling objects, and sharp edges in the workplace.
21. Eye protection should be worn and such devices should be carefully selected, fitted and used. Compulsory wearing of glasses with impact resistant lenses and side shields is a good safety policy. All eye protection should conform to ANSI 87 standards.
22. Wear hearing protection when operating the machine.
23. Do not wear rings necklaces or jewelry around moving machinery.
24. Do not wear loose fitting clothes. Clothing should be comfortable, but long sleeves, neckties, etc. should not be worn.
25. Do not wear gloves or other hand covering articles around moving machinery.
26. Cover long hair with a hair net or cap.

27. Protective guards and shields must be in place at all times unless they must be removed for specific service or maintenance. They should be immediately replaced when service or maintenance is completed.
28. Make sure that operator clearly knows how to stop the machine before starting work.
29. Never clean or remove chips while the machine is running.
30. Maintain the machine in good operating condition. Report unusual conditions or machine malfunctions immediately.
31. Do not alter or remove guards and warning labels.
32. Keep the immediate area clean. Do not allow the floor to become slippery, or covered with dust or obstacles. Dust that accumulates in the work area is a hazard that can cause you to fall or slip against the machine or its controls.
33. Employees should be required to report to their supervisors any hazardous condition of the machine or in the immediate area.

### **SHIPPING & RECEIVING INSTRUCTIONS**

This machine has been carefully inspected and tested before packing. It was delivered in good condition and was shipped in one wooden pallet.

When receiving this machine, inspect the wooden pallet and check to see if there is any damage. Then check the machine model and all items as according to the packing list.

If there is any damage on the machine or any missing parts, report it to your local distributor or the machine manufacturer immediately.

### **UNPACKING & CHECKING CONTENTS**

The machine has been well packed at the manufacturer's factory and shipped in good condition. The machine is shipped in one wooden pallet.

Upon receiving the machine, carefully unpack it and check all items as according to the packing list.

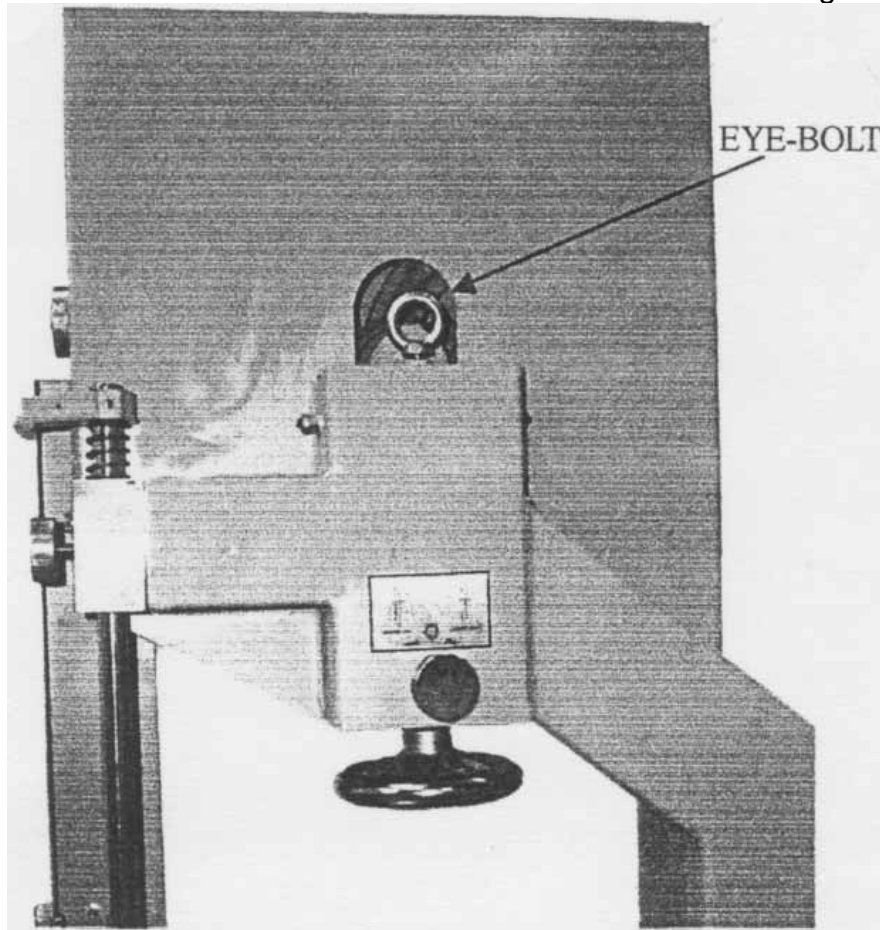
If you find any part is missed or damaged, contact your local distributor or the manufacturer of the machine immediately. Do not attempt to operate the machine until the missing parts are obtained and are installed correctly.

### **CLEANING THE MACHINE**

The machine is coated with rust preventative oil before shipment. When the machine has been moved to the proper work site, wipe the oil from the machine using a soft cloth soaked in kerosene. Do not use gasoline, lacquer thinner, or any other volatile solvent, as these may damage the paint surface of the machine.

## **LIFTING THE MACHINE**

The machine should be lifted or moved by a forklift. Make sure the loading capacity of the forklift is sufficient to raise the machine. Pay special attention to the machine balance while lifting the machine to prevent the machine from falling. The forks of the forklift must protrude over the machine bottom for uniform distribution of the entire machine weight.



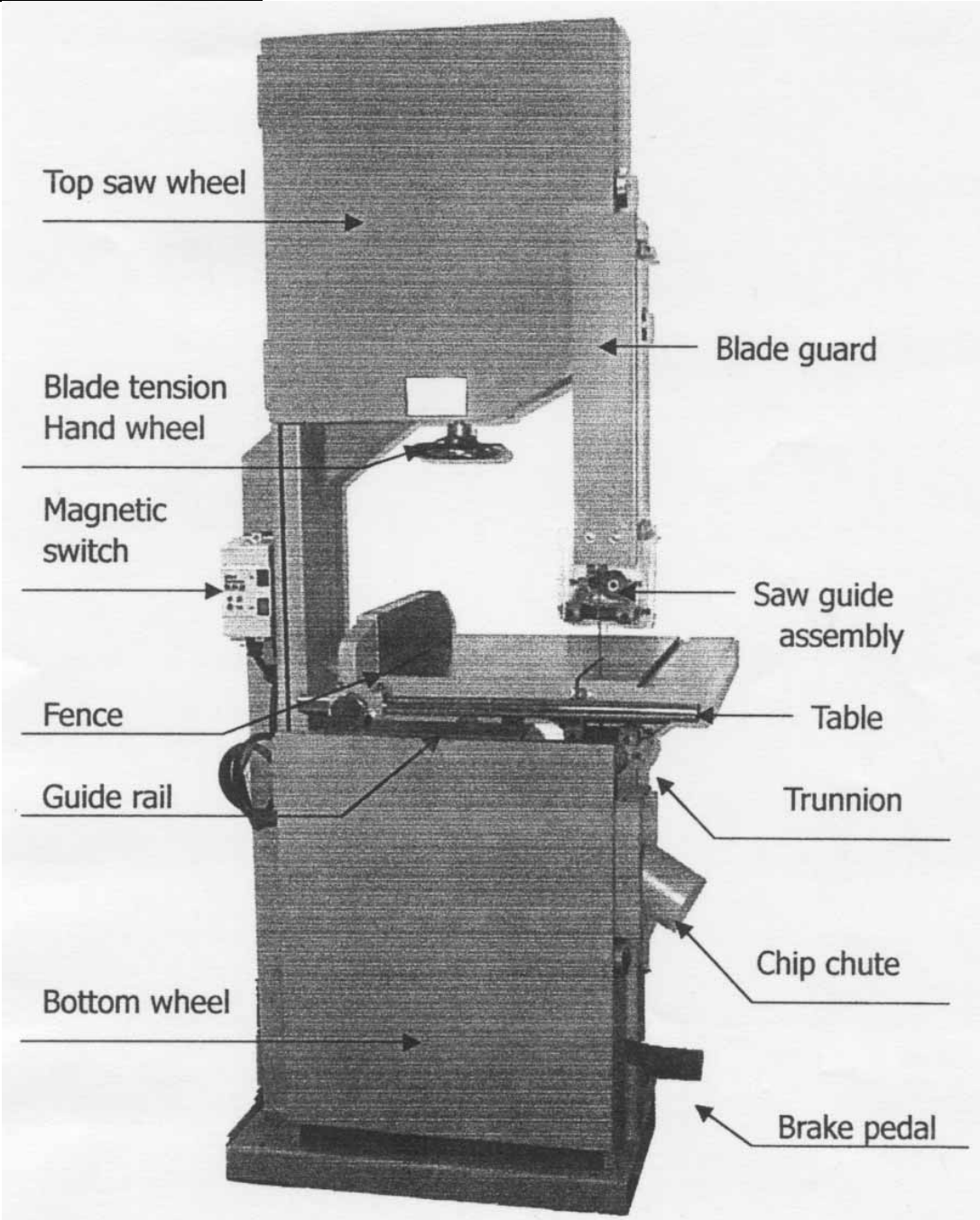
## **ELECTRICAL SAFETY RULES**

1. Do not alter or bypass any protective interlock.
2. Before starting the machine, read and observe all warning labels and markings such as nameplates and identification plates.
3. Only personnel who are properly trained and have adequate knowledge and skill should undertake all electrical/electronic troubleshooting and repair.
4. Use extra precautions in damp areas to prevent yourself from accidental grounding.
5. Make sure your body and your tools are clear of electrical grounding.
6. The control panel doors should be opened only when it is necessary to check the electrical equipment or electrical wiring.
7. Before applying power to any equipment, establish without a doubt that all persons are clear.
8. Be alert and be sure you can work with no outside distractions.
9. Avoid wearing metal frame glasses or wearing a metallic necklace or chain, and never work on electrical equipment while wearing rings, watches, or bracelets.
10. When replacing conductors, make sure they conform to the manufacturer's specifications, including proper color-coding.
11. Do not alter the electrical circuits. If machine damage is caused by an unauthorized alteration, the user is responsible, not the manufacturer.
12. Always assume the electrical power is ON and treat circuit as live. This caution develops a habit that may prevent an accident.
13. Give capacitors time to discharge. Otherwise, it should be done manually with care.
14. Use proper test equipment to make certain you have an open circuit. Test equipment must be checked and calibrated at regular intervals.
15. Open the control panel doors only when it is necessary to check the electrical equipment or wiring. After closing the door, make sure the disconnecting means are operating with the disconnecting handle mechanism in its proper position.
16. All covers on junction boxes must be closed before leaving any job.

## **SPECIFICATIONS**

Maximum Thickness of Cut	12-1/2"
Blade to Column	23-1/8"
Table Surface	22-5/8" x 28-3/4"
Table Tilt	45° Right Down 5° Left Down
Wheel Diameter	23-3/8"
Wheel Speed	665 RPM
Blade Size	3/8" to 1"
Chip Chute Outlet Diameter	4"
Motor	3HP/2 Pole/ 5HP/2 Pole/
Table Height from Floor	35-1/2"
Net Weight	880 lbs.
Gross Weight	990 lbs.
Packing Dimension	43" x 30" x 85"

**LEGEND OF THE MACHINE**



## **POWER SOURCE WIRE CONNECTION**

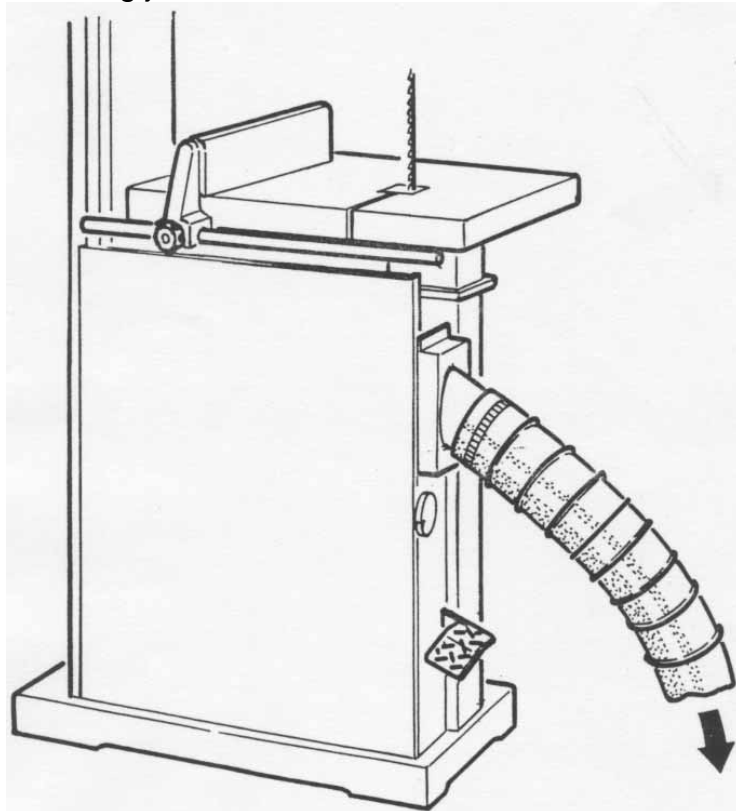
Before connecting the machine to outlet, be sure electric supply is the same voltage, hertz, and phase that is indicated on a instruction plate attached to power source wires, and stamped on motor cover.

**NOTE: Be certain that machine is properly grounded.**

Once the power source wires are connected, check if the power source wires are connected to the correct position by starting saw wheel running. The blade should run downward, then the running direction is normal. Otherwise you should change any two of the three power source wires.

## **CONNECTION OF DUST COLLECTION EQUIPMENT**

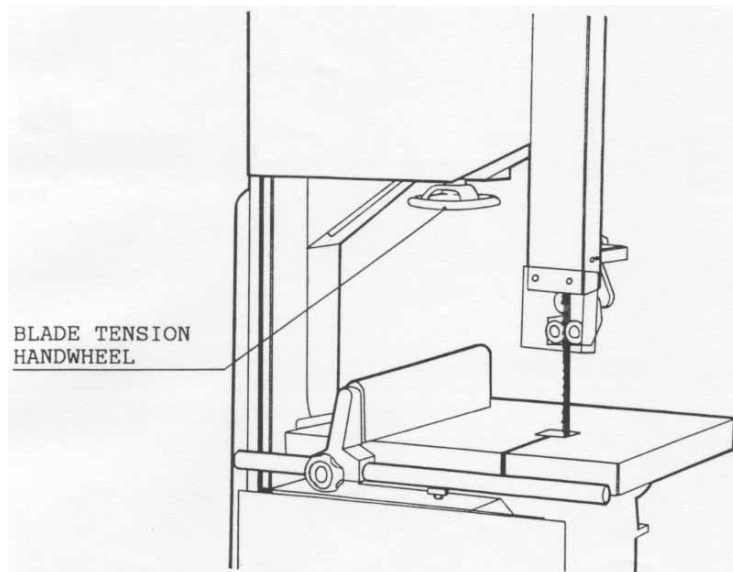
The dust hood is located at the front of the machine. The dust hood outlet is 4" in diameter. Use a flexible hose connecting just hood to dust collector.





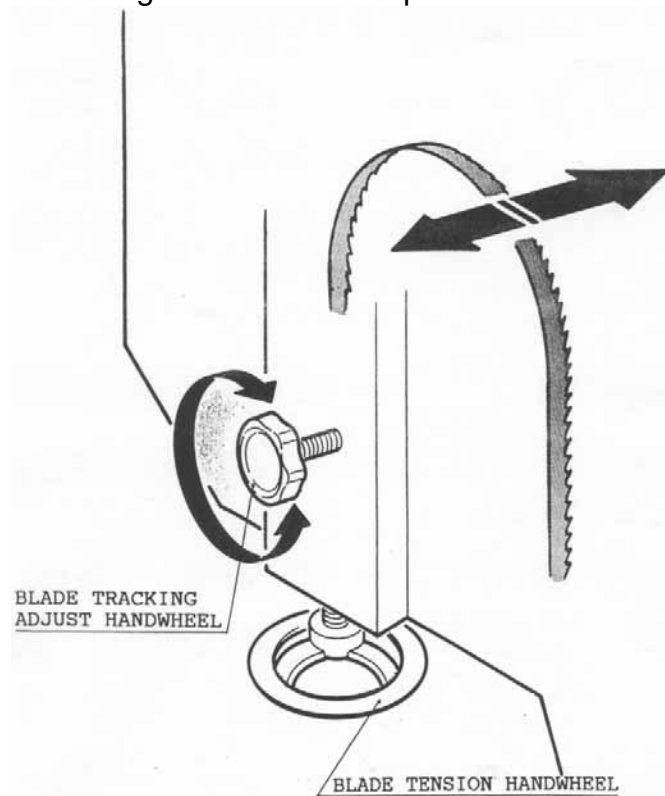
## **INSTALLING A SAW BLADE**

1. Turn off power source.
2. Open side cover of the machine.
3. Release the saw blade tension by turning blade tension adjustment handwheel counter-clockwise.
4. Take out the saw blade through the table groove.
5. Place the saw blade in the saw blade guide and over the top and bottom wheel. Make the proper saw blade tension by turning blade tension adjustment handwheel clockwise until proper tension is obtained. When you install the saw blade, be sure the teeth of the saw blade are pointed in the correct direction. Hold the saw blade facing your body, the saw blade teeth on your right side should point downward, when the teeth direction is correct.
6. The correct saw blade position on wheel should protrude about 1/8" from the edge of the wheel.



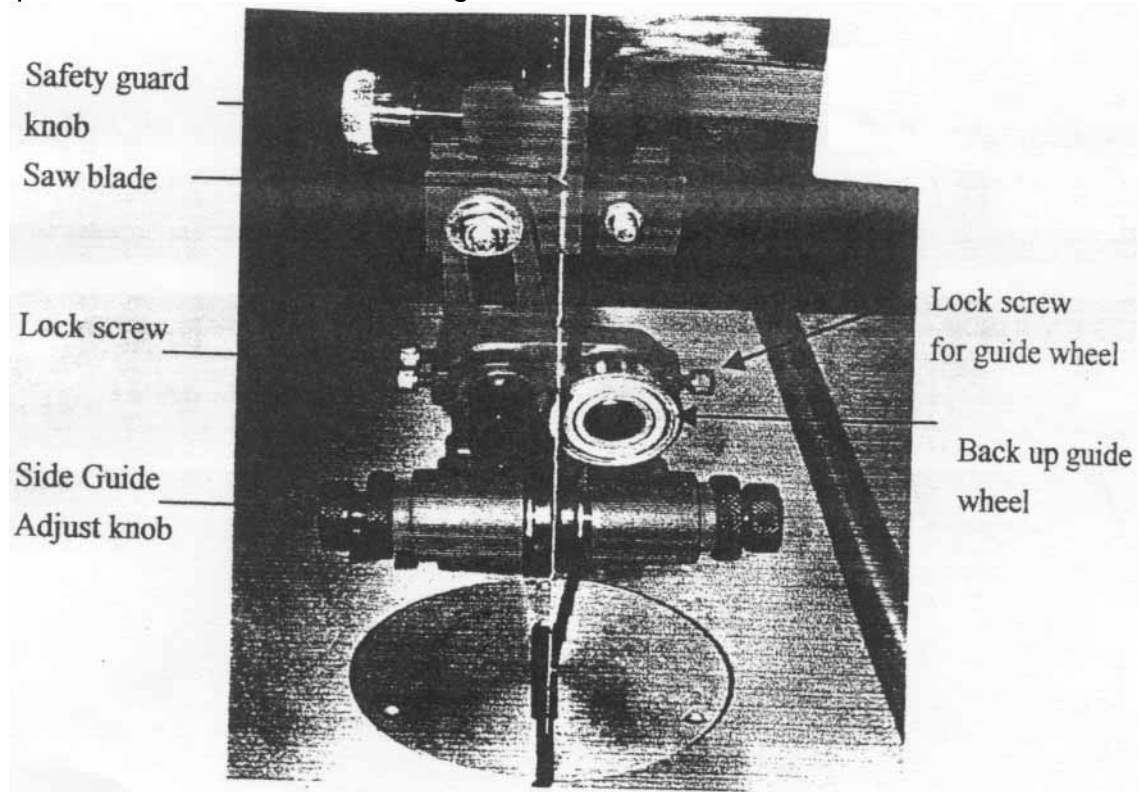
## TRACKING ADJUSTMENT OF SAW BLADE

1. Tighten the saw blade tension by turning blade tension adjustment handwheel clockwise.
2. Turn the wheel slowly with your hand, and adjust the saw blade position on the wheel until a correct position is obtained by turning blade tracking adjustment wheel. Turn tracking handwheel clockwise and the blade moves in. Turn counter-clockwise and the blade moves out.
3. The correct saw blade tracking on wheel should protrude 1/8" from the edge of the wheel.



## **ADJUST SAW BLADE GUIDE**

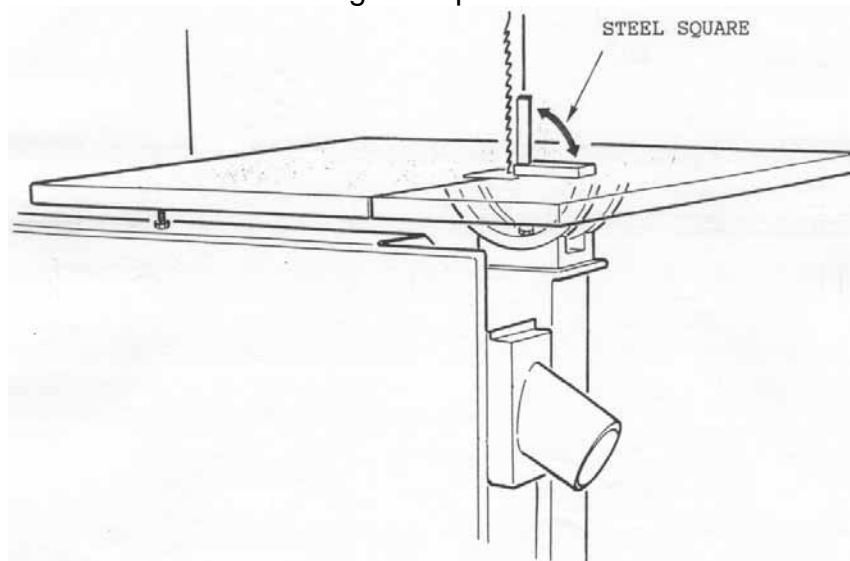
1. Loosen the lock screw of the top saw blade guide assembly, and move the saw blade guide assembly until the front edge of the side guide bearing is located at  $1/32''$  behind the tooth gullet. Then tighten up the lock screw of the guide assembly.
2. If either side of guide bearing slightly touches with the saw blade. Loosen the bearing lock screw before adjustment, and tighten it up after it's adjusted.
3. The bottom saw guide assembly is located below the table. Make the adjustment for bottom saw guide as above instructed.
4. Adjust the back up guide wheel. Loosen the guide wheel lock screw, and move the guide wheel to a position where the front edge of the guide wheel is about  $1/32''$  behind the back edge of the saw blade. Note that the guide wheel does not contact with the saw blade except when the saw blade is cutting.



## **SQUARE ADJUSTMENT OF BLADE TO TABLE**

When the table is set at a horizontal position, it is suggested to make a square adjustment to assure the blade is positively horizontal.

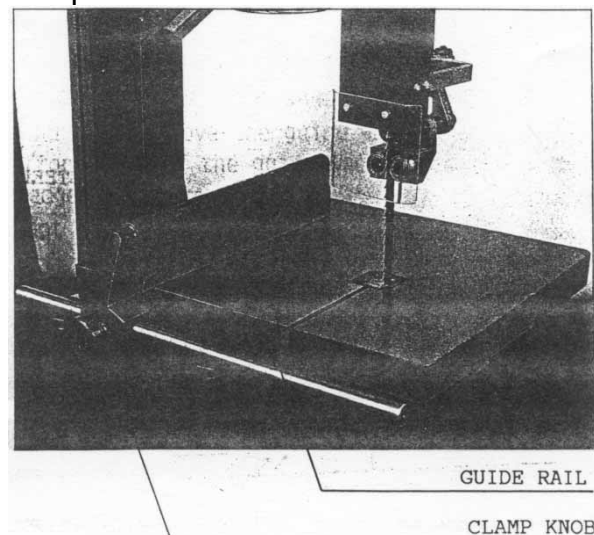
Place steel square on the table with one side against the blade. Loosen the trunion lock lever under the table, set the trunion at 0 graduation, and make sure that the steel square is absolutely contact with the blade. Then tighten up the trunion lock lever.



## **FENCE OPERATION**

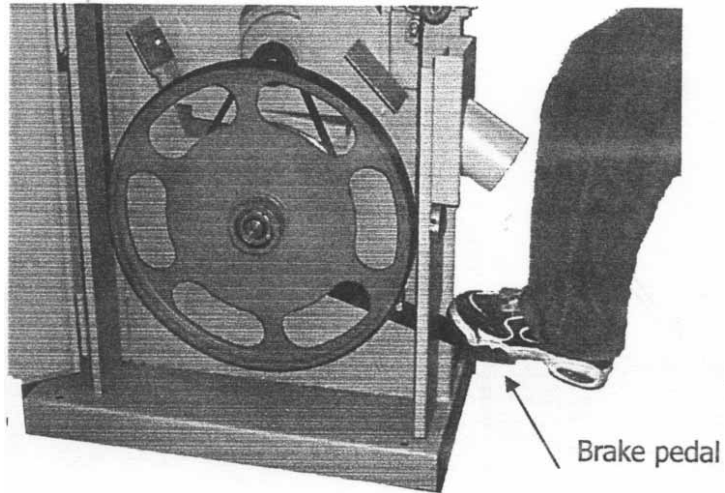
The fence is guided by means of a guide rail fastened to the left side of the table. The guide rail is calibrated to show the distance the fence is set from the blade.

To remove the fence, loosen the fence clamp knob, and shift the fence to the desired position. Then tighten up the fence clamp knob.



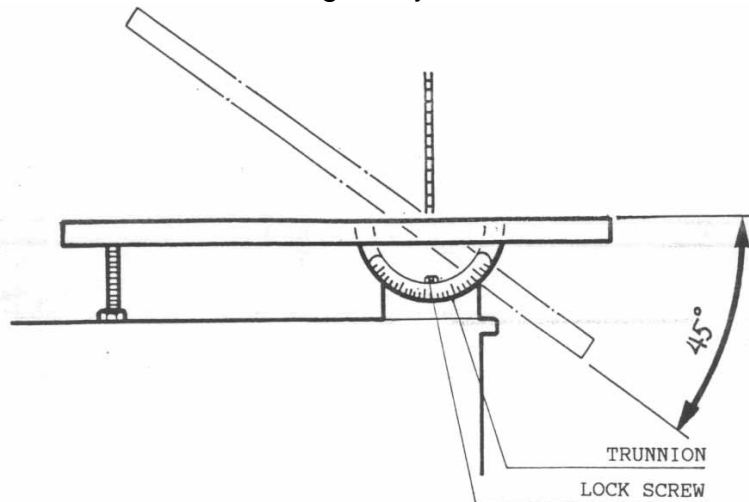
## **BRAKING**

The machine is equipped with a foot brake pedal for immediate stop of the wheel. Once you step on foot pedal, the power is shut off before the braking action has happened.



## **TABLE TILTING**

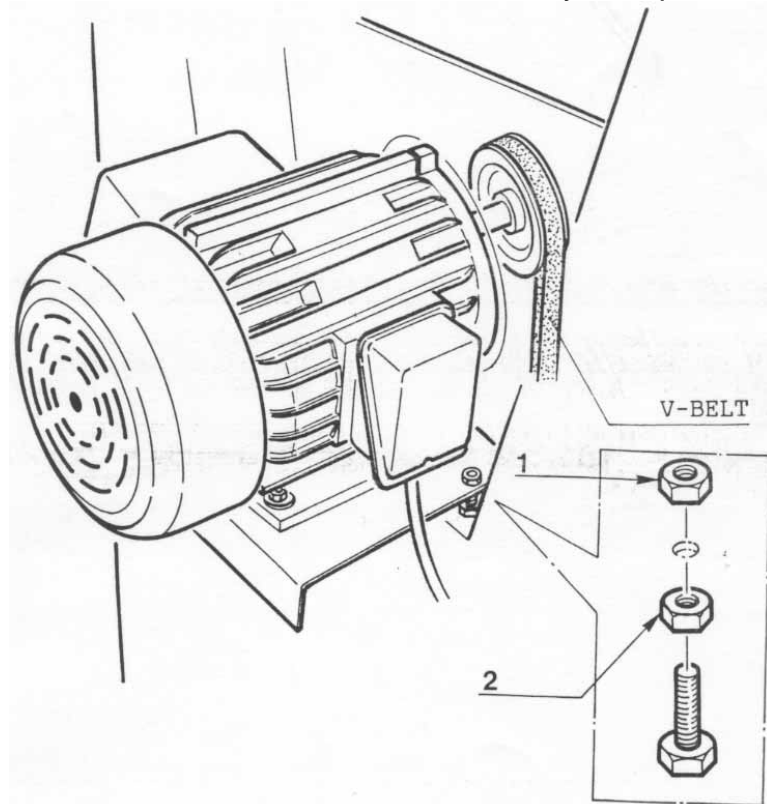
The table on this machine may be tilted to 45° front downward. Tilting the table is made by turning the trunion under the table. Loosen the trunion lock screw, and tilt the table to the desired tilting degree. There is a scale attached on the trunion indicating the table-tilting angle. Tighten up the trunion lock screw after tilting is adjusted.



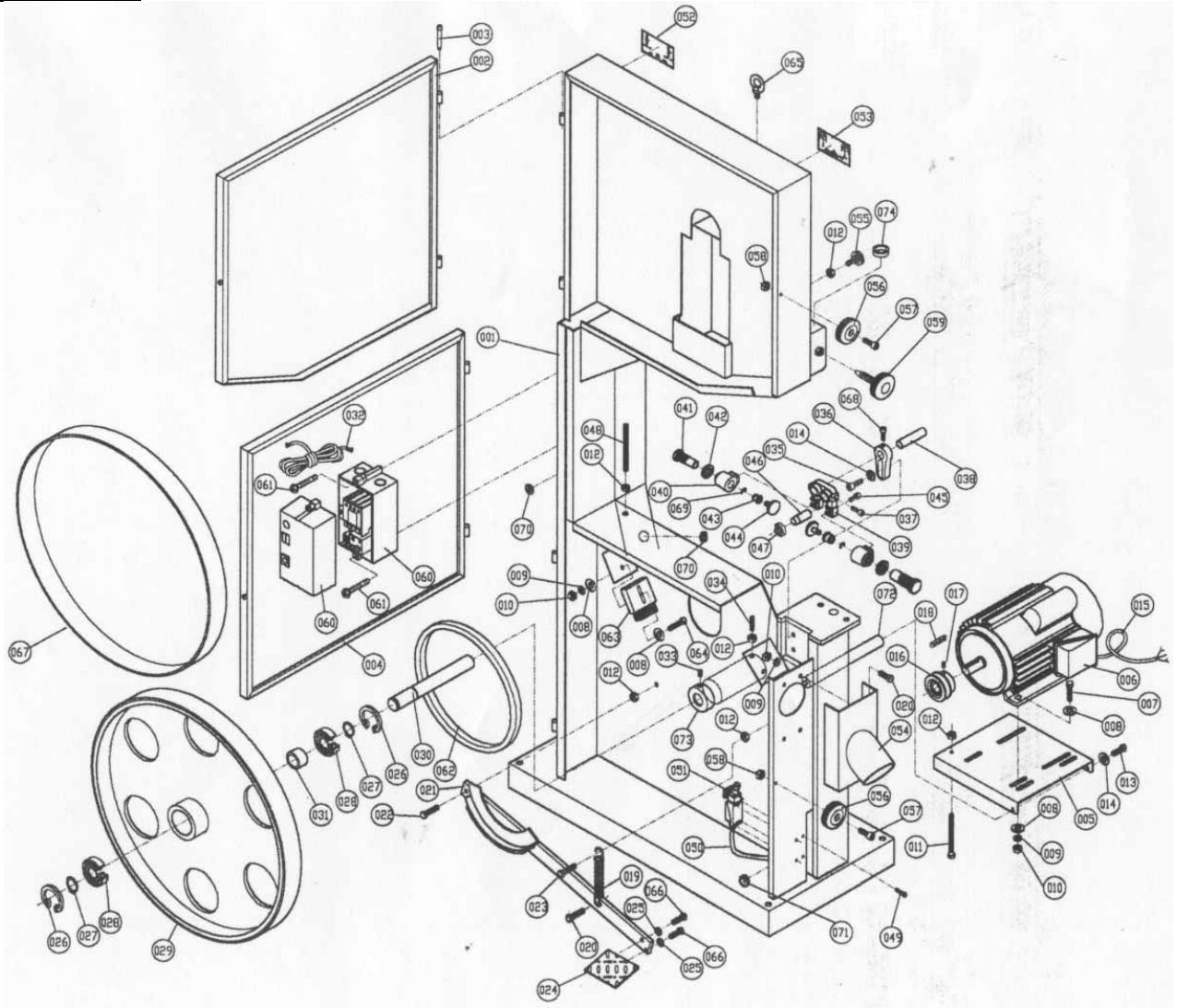
## **MOTOR V-BELT TENSION ADJUSTMENT**

After long time use of the machine, the motor belt may become elongated, at this time you should adjust the v-belt tension.

1. Release the v-belt tension by loosening the lock nut (1).
2. Turn lock nut (2) until the proper belt tension is obtained.
3. The normal belt tension is about 13/64" deflection when you depress it with your fingers.

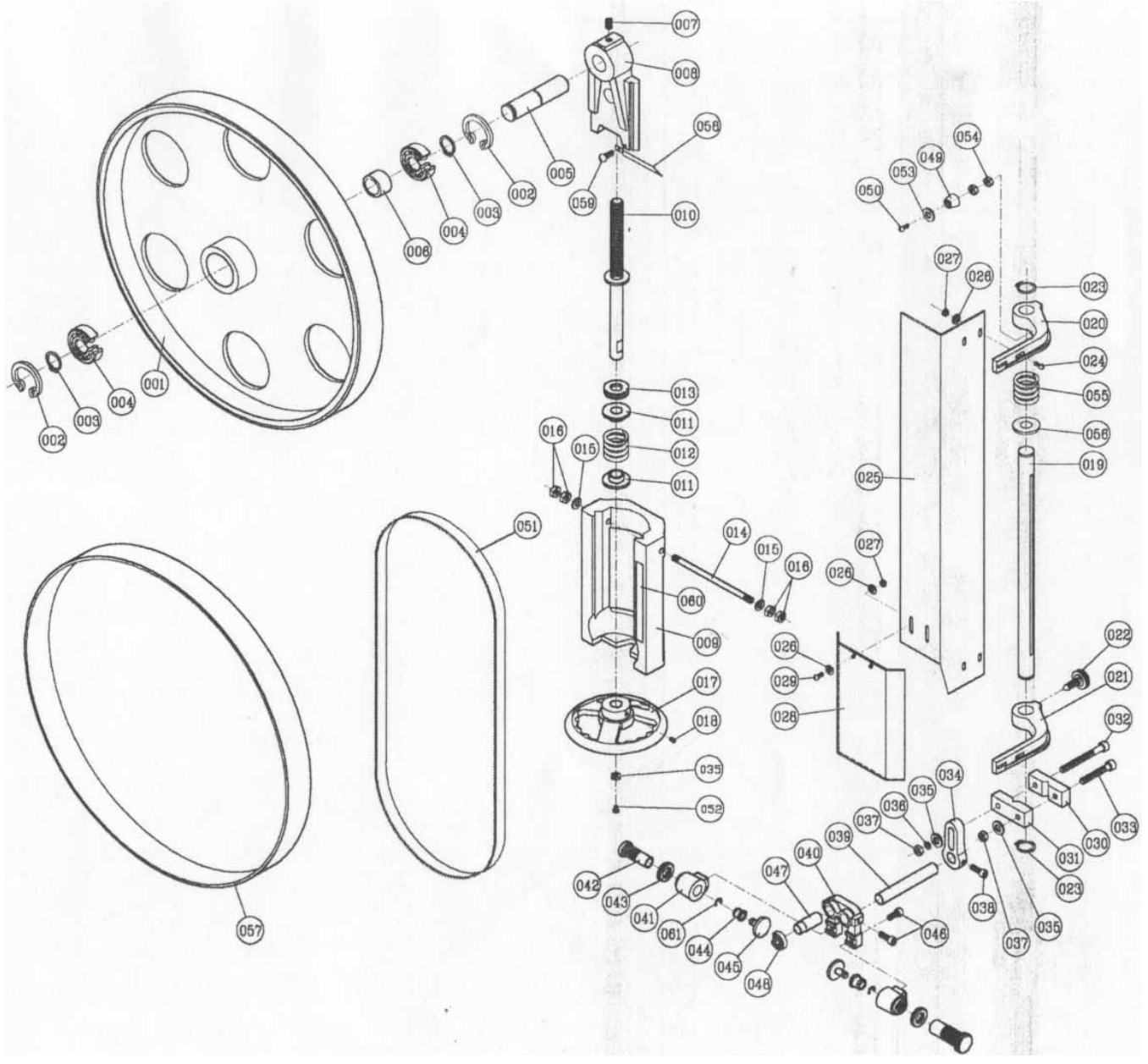


# PARTS LIST

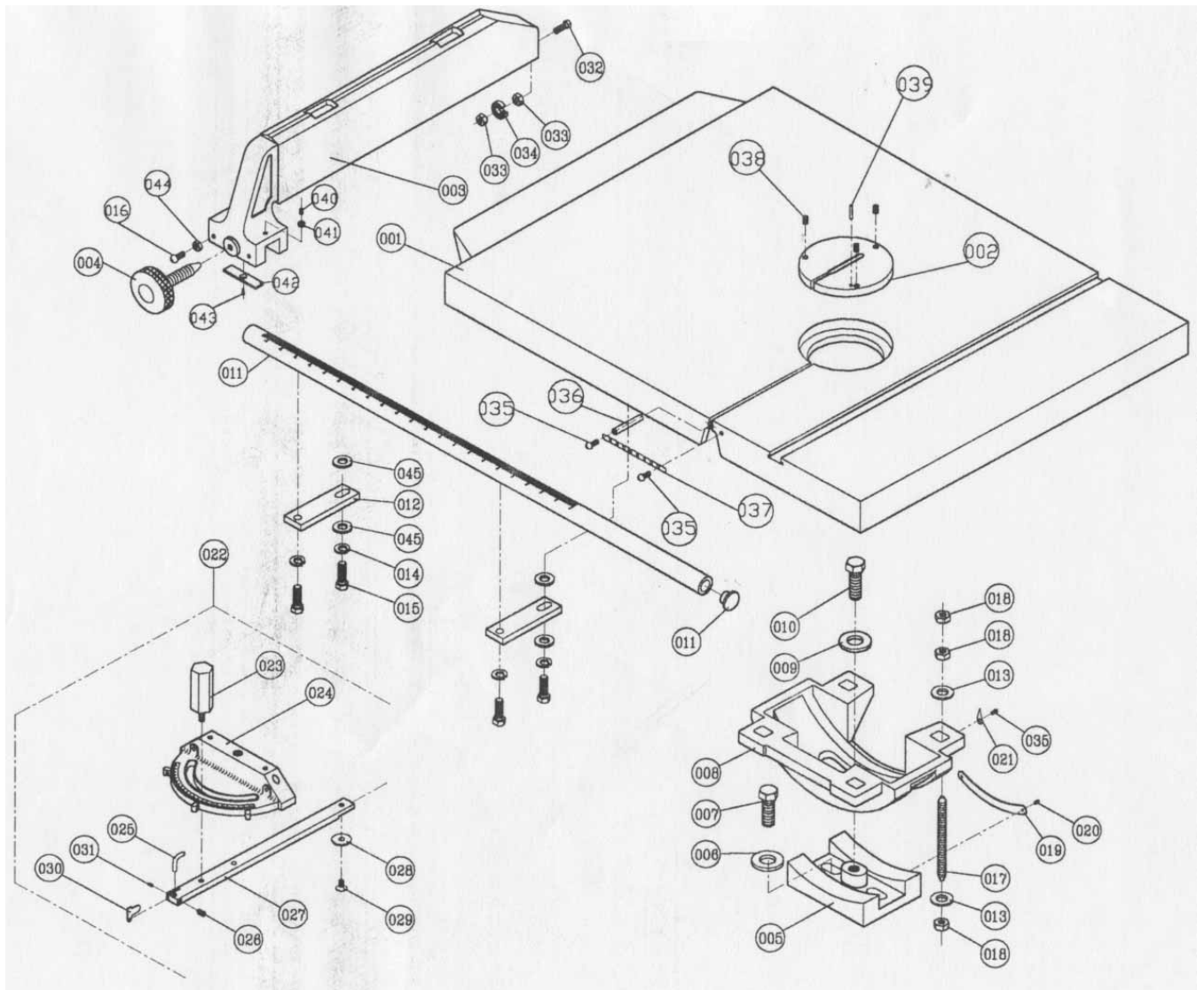


No	Part Name	Qty	Part No	No	Part Name	Qty	Part No
1	Base	1	32021001	37	Cap Screw	2	50152002
2	Upper Wheel Cover	1	32021002	38	Crank Shaft	1	32021011
3	Door Shaft	4	32021019	39	Guide Base	1	32021012
4	Lower Wheel Cover	1	32021003	40	Support Bushing	2	32021013
5	Motor Base	1	32021004	41	Adjust Bolt	2	32021014
6	Motor	1	32021500	42	Lock Ring	2	32021015
7	Hex. Screw	4	50151059	43	Brass Bushing	2	32021016
8	Washer	10	50351010	44	Position Shaft	2	32021017
9	Spring Washer	9	50352003	45	Cap Screw	2	50152003
10	Hex. Nut	9	50251003	46	Bearing Shaft	1	32021018
11	Hex. Screw	1	50151060	47	Bearing	1	50501012
12	Hex. Nut	10	50251006	48	Support Bolt	1	32011035
13	Hex. Screw	1	50151069	49	Round Head Screw	4	50104027
14	Washer	2	50351013	50	Wire, Micro Switch	1	32021901
15	Wire Motor	1	32021700	51	Switch	1	32011604
16	Pulley	1	32011012	52	Instruction Label	1	32011037
17	Set Screw	1	50153020	53	Instruction Label	1	32011036
18	Key	1	50604012	54	Dust Chute	1	32011033
19	Brake Spring	1	32011028	55	Lock Screw	1	32011006
20	Hex. Screw	5	50151009	56	Door Lock Knob	2	32011008
21	Brake Linkage	1	32021007	57	Cap Screw	2	50152004
22	Hex. Screw	1	50151029	58	Nylon Nut	2	50252006
23	Hex. Screw	1	50151019	59	Lock Screw	1	32011007
24	Brake Pedal	1	32011027	60	Magnetic Starter	1	32021600
25	Spring Washer	2	50352004	61	Round Head Screw	2	50104002
26	C-Ring	2	50402008	62	Belt	1	50801005
27	C-Ring	2	50401004	63	Dust Brush	1	32011032
28	Bearing	2	50501025	64	Hex. Screw	1	50151059
29	Driving Wheel	1	32021008	65	Eye Bolt	1	32011010
30	Driving Shaft	1	32021009	66	Hex. Screw	2	50151018
31	Collar	1	32011031	67	Tire	1	32021020
32	Power Cord	1	32021800	68	Cap Screw	1	50152021
33	Set Screw	1	50153031	69	E-Ring	2	50403001
34	Set Screw	4	50153030	70	Wire Protector	2	34011029
35	Cap Screw	1	50151020	71	Wire Protector	1	32011038
36	Lower Adjust Crank	1	32011014	72	Support Tube	1	32021022





No	Part Name	Qty	Part No	No	Part Name	Qty	Part No
1	Drive Wheel	1	32022001	32	Cap Screw	1	50152028
2	C-Ring	2	50402008	33	Cap Screw	1	50152029
3	C-Ring	2	50401004	34	Upper Adjust Block	1	32012018
4	Bearing	2	50501025	35	Washer	3	50351010
5	Wheel Shaft	1	32012002	36	Spring Washer	1	50352003
6	Collar	1	32011031	37	Hex. Nut	2	50251003
7	Set Screw	1	50153018	38	Cap Screw	1	50152021
8	Slide Block	1	32012003	39	Blade Guide Shaft	1	32022005
9	Slide	1	32012004	40	Blade Guide Base	1	32021012
10	Bolt	1	32022002	41	Support Bushing	2	32021013
11	Spring Fixer	2	32012006	42	Adjust Shaft	2	32021014
12	Spring Fixer	1	32012007	43	Lock Collar	2	32021015
13	Bearing	1	50503001	44	Brass Bushing	2	32021016
14	Slide Support Shaft	1	32012008	45	Position Shaft	2	32021017
15	Washer	2	50351011	46	Cap Screw	4	50153004
16	Hex. Nut	4	50251006	47	Bearing Shaft	1	32021018
17	Handwheel	1	32012009	48	Bearing	1	50501012
18	Set Screw	1	50153019	49	Protect Pad	1	32012021
19	Guard Adjust Rod	1	32022003	50	Round Head Screw	1	50154021
20	Guard Lower Arm	1	32012011	51	Blade	1	32022006
21	Guard Upper Arm	1	32012012	52	Hex. Nut	1	50151006
22	Lock Knob	1	32012013	53	Washer	1	50351022
23	C-Ring	2	50401003	54	Hex. Nut	2	50251017
24	Round Head Screw	4	50154008	55	Spring	1	32012019
25	Safety Cover	1	32022004	56	Washer	1	32012020
26	Washer	8	50351002	57	Tire	1	32021020
27	Hex. Nut	6	50251001	58	Pointer	1	32022007
28	Safety Guard	1	32012015	59	Round Head Screw	1	50154012
29	Round Head Screw	2	50152034	60	Scale	1	37011035
30	Front Clamping Block	1	32012016	61	C-Ring	2	50403001
31	Rear Clamping Block	1	32012017				



No	Part Name	Qty	Part No	No	Part Name	Qty	Part No
1	Table	1	32023001	24	Gauge Body	1	33052002
2	Blade Guard	1	32013002	25	Pointer	1	33052003
3	Fence	1	32023003	26	Set Screw	1	50153003
4	Lock Washer	1	32013017	27	Guide Bar	1	33052004
5	Trunion Base	1	32013006	28	Washer	1	33052047
6	Washer	2	50351014	29	Philip Screw	1	50155003
7	Hex. Screw	2	50151023	30	Stop	1	33052068
8	Trunion	1	32013007	31	Spring Pin	1	50602031
9	Roller	1	32013008	32	Hex. Screw	1	50151013
10	Hex. Screw	1	50151040	33	Hex. Nut	2	50251003
11	Guide Rod	1	32023004	34	Bearing	1	50501020
12	Support Plate	2	32013010	35	Round Head Screw	3	50154012
13	Washer	8	50351034	36	Taper Pin	1	32013015
14	Spring Washer	4	50352004	37	Chain	1	32013016
15	Hex. Screw	4	50151019	38	Set Screw	3	50153017
16	Round Head Screw	2	50104028	39	Spring Pin	1	50602003
17	Adjust Bolt	4	32013012	40	Set Screw	2	50153016
18	Hex. Nut	12	50251006	41	Hex. Nut	2	50251001
19	Angle Label	1	32013013	42	Adjust Plate	1	32013005
20	Rivet	2	51201007	43	Philip Head Screw	1	50155005
21	Pointer	1	32013014	44	Hex. Head	2	50201002
22	Miter Gauge assembly	1	33052201	45	Washer	4	50351013
23	Handle	1	33052001				