

EB-20



EXTREMA MACHINERY COMPANY, INC.

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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 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 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.

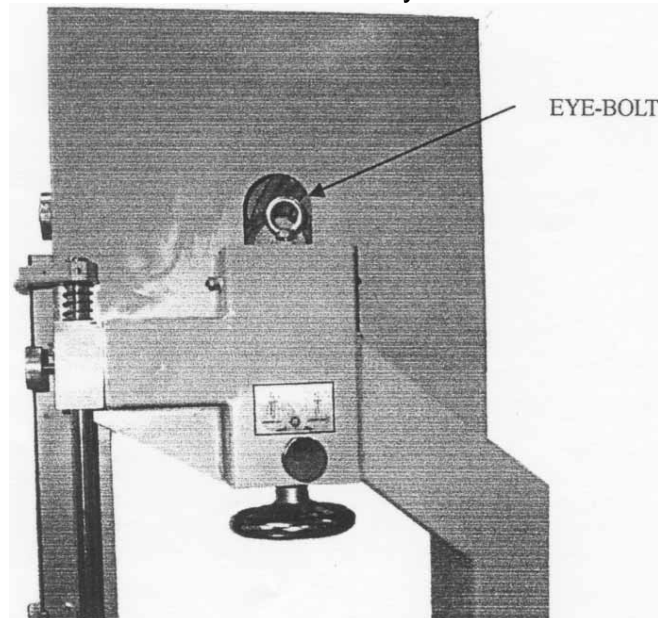
CLEANING THE MACHINE

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.

The machine can also be lifted by hooking the eye-bolt on the top frame as below diagram shows. Pay attention to the machine balance when you lift the machine.



Raising and lowering the machine should be done very carefully, especially when you lower the machine, be careful not to bump the machine against the floor.

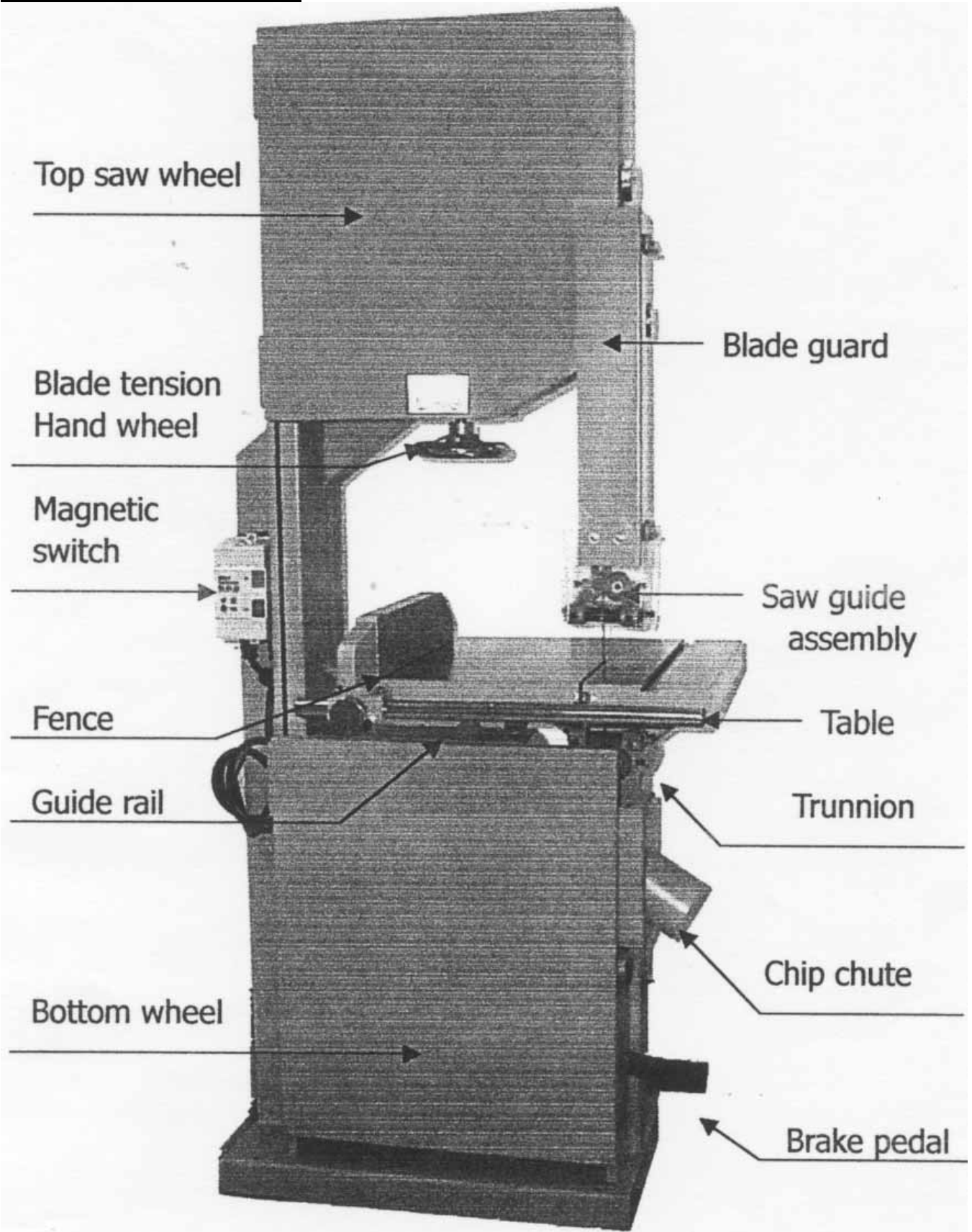
ELECTRICAL SAFETY RULES

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"
Blade to Column	19-1/2"
Table Surface	22-3/4" x 20 5/16"
Table Tilt	45° Right Down 10° Left Down
Wheel Diameter	19-1/2"
Wheel Speed	755 RPM (3960 FPM)
Blade Size	3/8" to 1"
Chip Chute Outlet Diameter	4"
Motor	3 HP/2 Pole/1 ∅
Table Height from Floor	36"
Net Weight	462 Lbs.
Gross Weight	550 Lbs.
Packing Dimension	36" x 30" x 80"

LEGEND OF THE MACHINE



POWER SOURCE WIRE CONNECTION

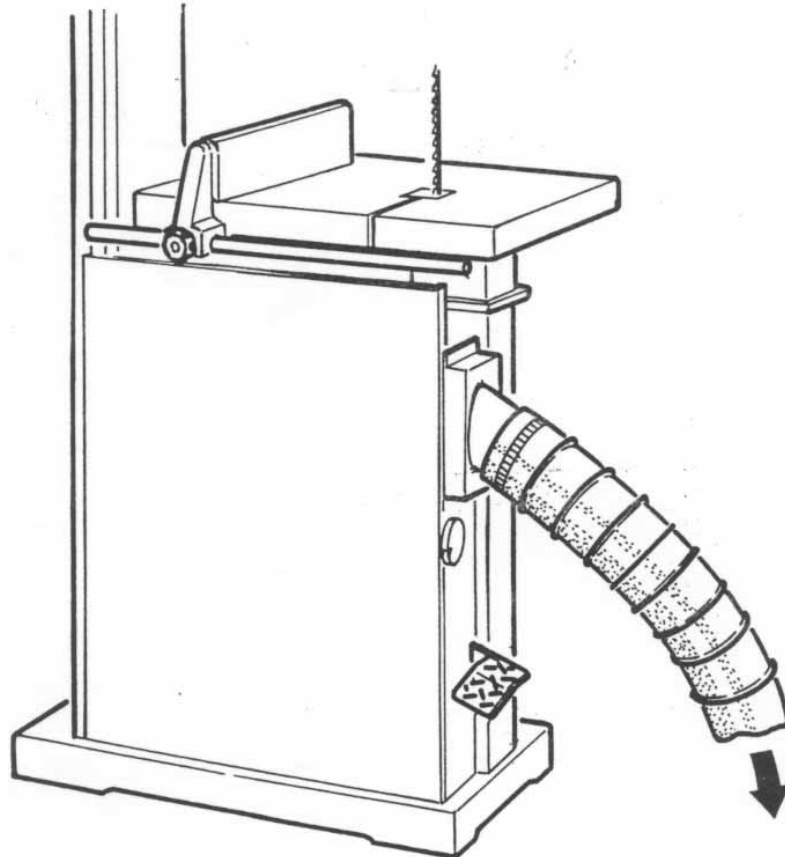
Before connecting the machine to the outlet, be sure electric supply is the same voltage, hertz, and phase that is indicated on the plate attached to the power source wires, and stamped on the motor cover.

Caution: Be certain that the 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 the saw wheel. If the blade is running downward with the blade teeth pointing downward, the running direction is normal. Otherwise you must switch the two outer wires.

CONNECTION OF DUST COLLECTION EQUIPMENT

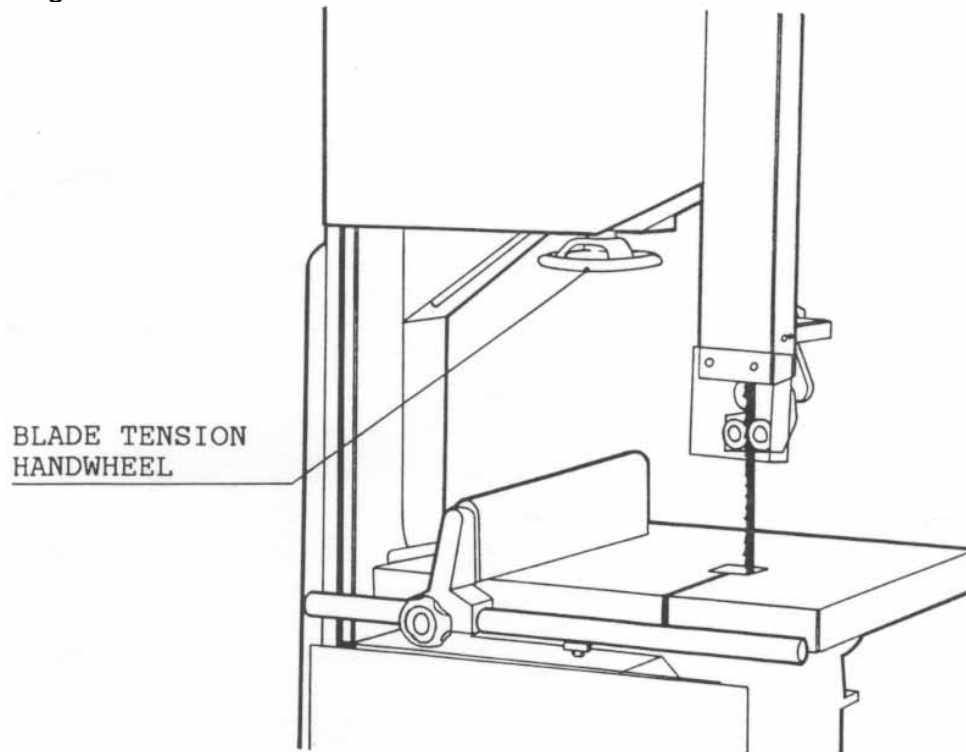
The dust hood is located at the front of the machine. The dust hood outlet is 4" in diameter. Use a flexible hose connecting dust hood to dust collector.



INSTALLING A SAWBLADE

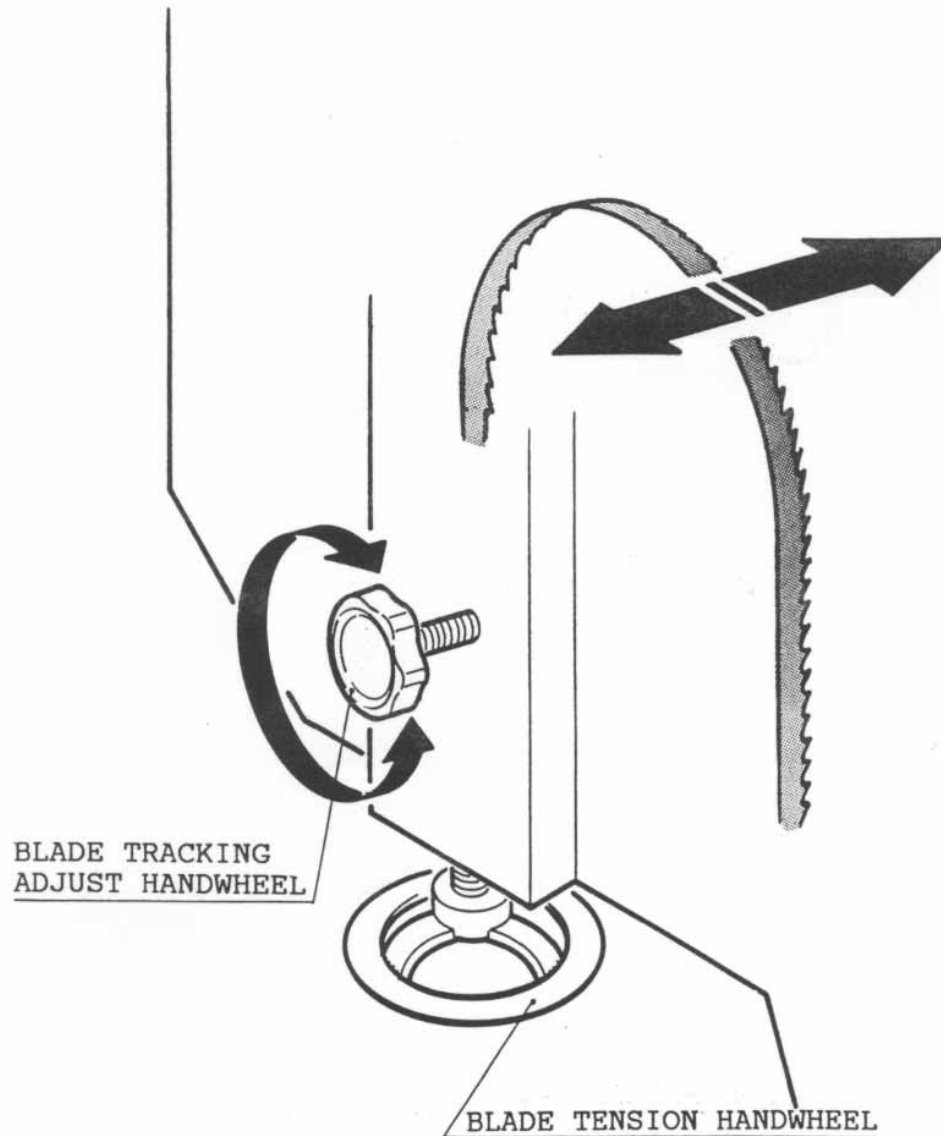
1. Turn off power source.
2. Open side cover of the machine.
3. Release the saw blade tension by turning blade tension adjustment handwheel counter-clockwise.
4. Take out the saw blade through the table groove.
5. Place the saw blade in the saw blade guide assembly and over the top and bottom wheel. 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. When holding the saw blade with the teeth facing your body, the teeth on the right should be pointing downward. The correct saw blade position on wheel should protrude about 1/8" from the edge of the wheel.



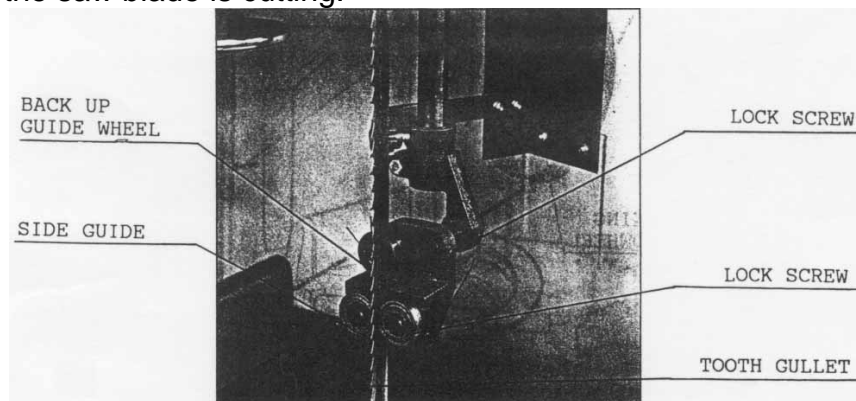
TRACKING ADJUSTMENT OF SAW BLADE

1. Tighten the saw blade tension by turning blade tension adjustment handwheel clockwise.
2. With power turned off, 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. Turning the tracking handwheel clockwise allows the blade to move inward. Turning the tracking handwheel counter-clockwise allows the blade to move outward.
3. The correct saw blade tracking on wheel should protrude 1/8" from the edge of the wheel.



ADJUST SAW BLADE GUIDE

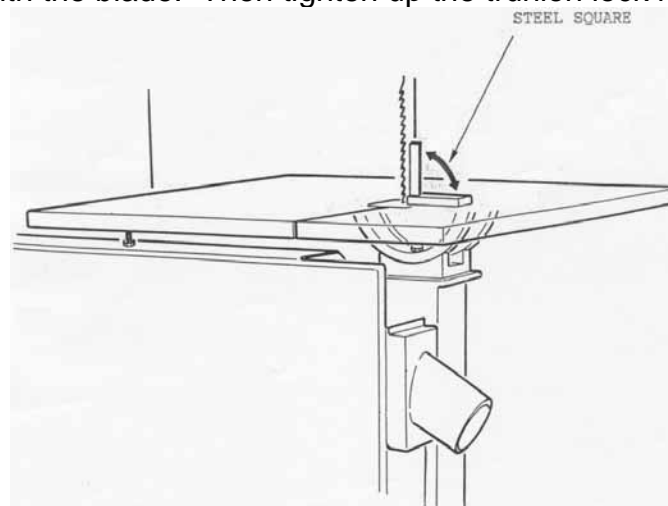
1. Loosen the lock screw of the top saw blade guide assembly, and move the saw blade guide assembly until the front edge of the side guide bearing is located at $1/16$ " behind the tooth gullet. Then tighten up the lock screw of the guide assembly.
2. If either side of guide bearing slightly touches 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.

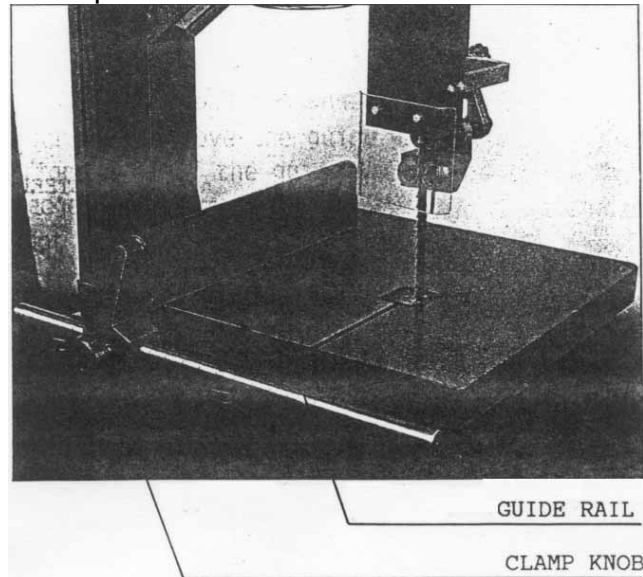
Place a steel square on the table with one side against the blade. Loosen the trunion lock lever under the table, set the trunion at zero graduation, and make sure that the steel square has absolute contact with the blade. Then tighten up the trunion lock lever.



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 stopping of the wheel. Once you step on foot pedal, the power is shut off before the braking action has happened.

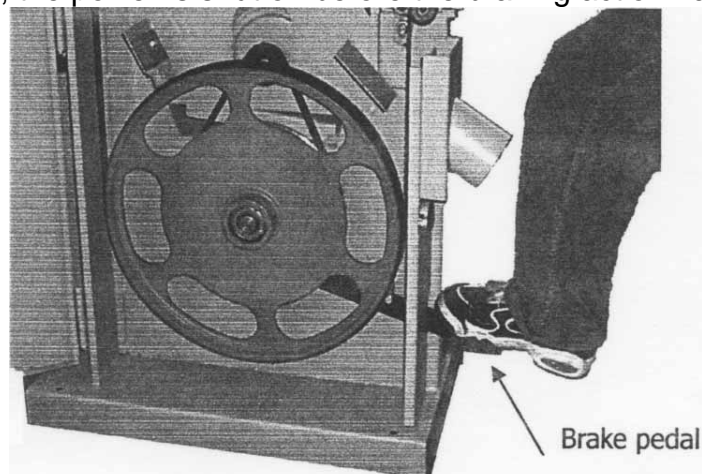
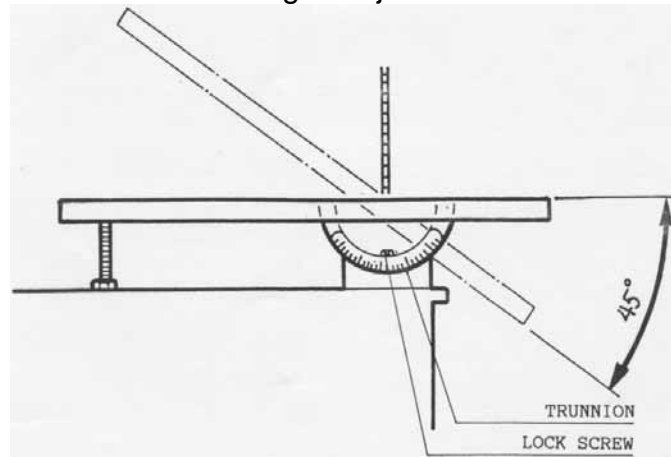


TABLE TILTING

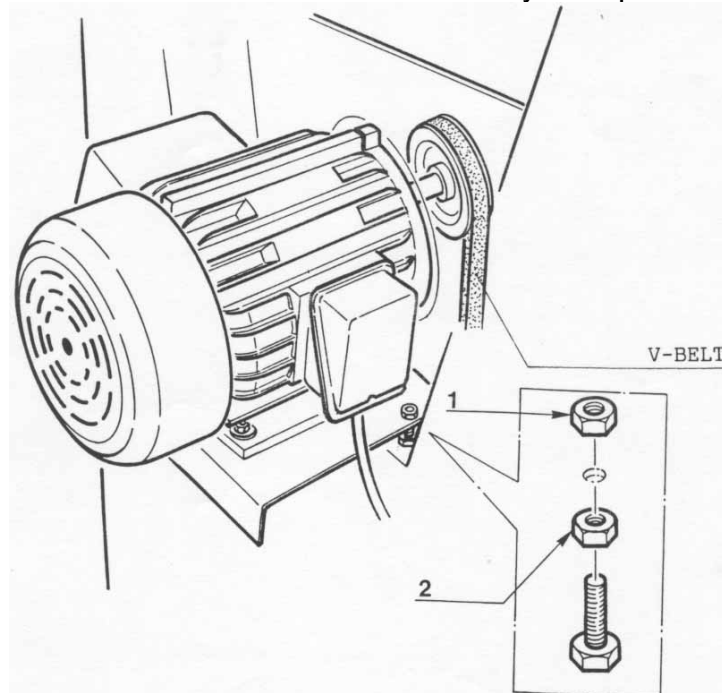
The table on this machine may be tilted to 45° fronts downward. Tilting the table is made by turning the trunion under the table. Loosen the trunion lock screw, and tilt the table to the desired tilting degree. There is a scale attached on the trunion indicating the table-tilting angle. Tighten up the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



MOTOR V-BELT TENSION ADJUSTMENT

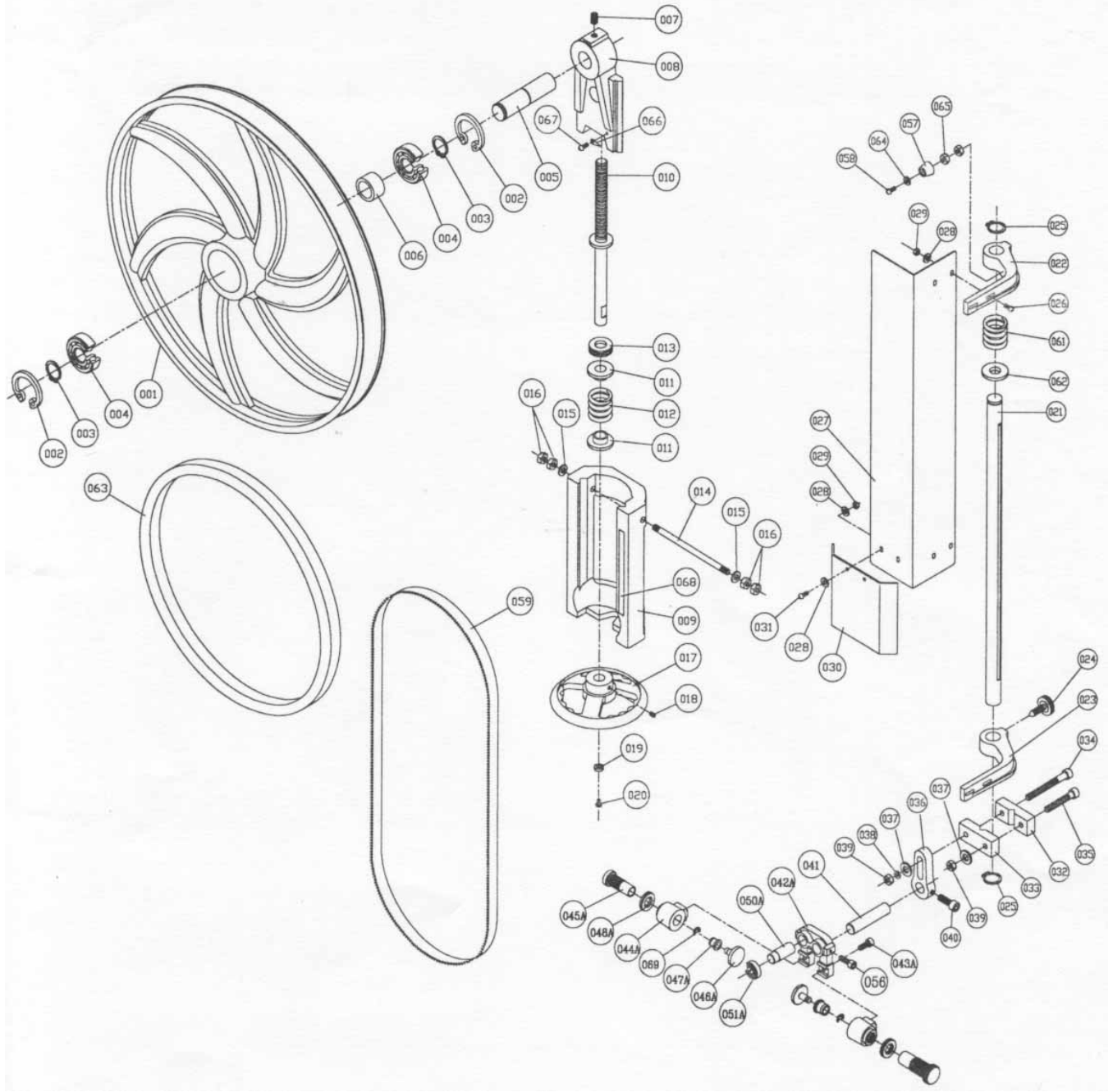
After prolonged use of the machine, the motor belt may become elongated. At this time you should adjust the v-belt tension.

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 3/16" deflection when you depress it with your fingers.



PARTS LIST

No	Part Name	Qty	Part No	No	Part Name	Qty	No
1	Base	1	32011043	48	Spring Washer	6	50352004
2	Upper Wheel Cover	1	32011002	49	Hex. Screw	6	50151076
3	Door Shaft	4	33052035	50	End Cover	1	32011024
4	Lower Wheel Cover	1	32011003	51	Set Screw	4	50153030
5	Bracket	1	32011004	52	Hex. Screw	4	50251006
6	Adjusting Block	1	32011044	53	Round Head Screw	3	50154004
7	Hex. Screw	10	50251006	54	Hex. Nut	1	50251003
8	Lock Knob	1	32011007	55	Hex. Screw	1	50151012
9	Flat Washer	7	50351013	56	Support Bracket	1	32011025
10	Spring Washer	3	50352004	57	Brake Linkage	1	32011026
11	Hex. Screw	1	50151017	58	Brake Pedal	1	32011027
12	Hex. Screw	1	50151022	59	Hex. Screw	2	5012037
13	Cap Screw	4	50152003	60	Spring	1	32011028
14	Lock Screw	1	32011006	61	Hex. Screw	1	50151017
15	Door Lock Knob	2	32011008	62	Hex. Screw	2	50151019
16	Cap Screw	2	50152004	63	Hex. Screw	1	50151029
17	Motor Plate	1	32011009	64	Driving Pulley	1	32011029
18	Motor	1	32011503	65	Driving Shaft	1	32011030
19	Hex. Screw	4	50151059	66	C-Ring	2	5042008
20	Flat Washer	10	50351010	67	C-Ring	2	50401004
21	Spring Washer	9	50352003	68	Bearing	2	50501025
22	Hex. Screw	9	50251003	69	Collar	1	32011031
23	Adjusting Bolt	1	32011011	70	Belt	1	50801005
24	Motor Pulley	1	32011012	71	Dust Brush	1	32011032
25	Set Screw	1	50153020	72	Hex.	1	50151059
26	Key	1	50604024	73	Dust Chute	1	32011033
27	Motor Wire	1	32011701	74	Cap Screw	1	50152004
28	Lower Adjust Crank	1	32011014	75	Round Head Screw	4	50104027
29	Crank Shaft	1	32011011	76	Nylon Nut	2	50252006
30	Cap Screw	1	50152021	77	Support Bolt	1	32011035
31	Cap Screw	2	50154015	78	Switch	1	32011603
32	Guide Base	1	32011012	79	Round Head Screw	2	50104002
33	Cap Screw	2	50152003	80	Power Cord	1	32011802
34	Support Bushing	2	32021013	82	Tire	2	32011034
35	Adjust Bolt	2	32021014	83	Eye-Bolt	1	32011010
36	Position Shaft	2	32021017	84	Instruction Label	1	32011036
37	Brass Bushing	2	32021016	85	Instruction Label	1	32011037
38	Lock Ring	2	3202115	86	Micro Switch	1	32011604
40	Bearing Shaft	1	32021018	87	Wire for Micro Switch	1	32011901
41	Bearing	1	50501012	88	Adjust Screw	1	32011013
46	Cap Screw	2	50501012				
47	Adjust End Cover	1	32011023				



No	Part Name	Qty	Part No	No	Part Name	Qty	Part No
1	Drive Wheel	1	32012001	35	Cap Screw	1	50152029
2	C-Ring, RTW-62	2	50402008	36	Upper Adjust Block	1	32012018
3	C- Ring, STW-30	2	50401004	37	Flat Washer	2	50351010
4	Bearing, 6206Z	2	50501025	38	Spring Washer	1	50352003
5	Wheel Shaft	1	32012002	39	Hex. Nut	2	50251003
6	Collar	1	32011031	40	Cap Screw	1	50152002
7	Set Screw	1	50153018	41A	Blade Guide Shaft	1	32022005
8	Slide Block	1	32012003	42A	Blade Guide Shaft	1	32021012
9	Slide	1	32012004	43A	Cap Screw	2	50152003
10	Bolt	1	32012005	44A	Collar, Support	2	32021013
11	Spring Fixer	2	32012006	45A	Adjust Shaft	2	32021014
12	Spring	1	32012007	46A	Position Shaft	2	32021017
13	Bearing	1	50503001	47A	Brass Bushing	2	32021016
14	Slide Support Shaft	1	32012008	48A	Lock Collar	2	32021015
15	Flat Washer	2	50351011	50A	Bearing Shaft	1	32021018
16	Hex. Nut	4	50251006	51A	Bearing, 6203ZZ	1	50501012
17	Hand Wheel	1	32012009	56	Cap Screw	2	50152002
18	Set Screw	1	50153019	57	Protect Pad	1	32012021
19	Flat Washer	1	50351010	58	Round Head Screw	1	50154005
20	Hex. Screw	1	50151006	59	Saw Blade	1	32012022
21	Guide Adjust Rod	1	32012010	61	Spring	1	32012019
22	Upper Arm	1	32012011	62	Washer	1	32012020
23	Lower Arm	1	32012012	63	Tire	1	32011034
24	Lock Knob	1	32012013	64	Flat Washer	1	50351022
25	C-Ring, STW-25	2	50401003	65	Hex. Nut	2	50251017
26	Round Head Screw	4	50154008	66	Pointer	1	32013014
27	Safety Cover	1	32012014	67	Round Head Screw	1	50154012
28	Flat Washer	8	50351002	68	Rule	1	37011035
29	Hex. Nut	6	50251001				
30	Safety Guard	1	32012015				
31	Round Head Screw	2	50154019				
32	Front Clamping Block	1	32012016				
33	Rear Clamping Block	1	32012017				
34	Cap Screw	1	50152028				

No	Part Name	Qty	Part No	No	Part Name	Qty	Part No
1	Table	1	32013001	25	Spring Washer	4	50352004
2	Blade Guard	1	32013002	26	Hex. Screw	4	50151019
3	Fence	1	32013003	27	Cap	1	32013011
4	Fence Base	1	32013004	28	Adjust Bolt	4	32013012
5	Lock Knob	1	32013017	29	Hex. Nut	12	50251006
6	Adjust Plate	1	32013005	30	Angle Label	1	32013013
7	Philip Head Screw	1	50155005	31	Round Head Screw	3	50154012
8	Hex. Nut	2	50151019	32	Pointer	1	32013014
9	Nut	2	5025101	33	Miter Gauge	1	33052201
10	Set Screw	2	50153016	34	Handle	1	33052001
11	Hex. Screw	1	50151013	35	Gauge Body	1	33052002
12	Hex. Nut	2	50251003	36	Pointer	1	33052003
13	Bearing, 608ZZ	1	50501020	37	Set Screw	1	50153003
14	Set Screw	3	50153017	38	Guide Bar	1	33052004
15	Spring Pin	1	50602003	39	Washer	1	33052047
16	Trunion Base	1	32013006	40	Philip Head Screw	1	50155003
17	Flat Washer	2	50351014	41	Stop	1	33052068
18	Hex. Screw	2	50151023	42	Spring Pin	1	50602031
19	Trunion	1	32013007	43	Flat Washer	8	50351034
20	Roller	1	32013008	44	Hex. Nut	2	50201002
21	Hex. Screw	1	32013008	45	Round Head Screw	2	50104028
22	Guide Rod	1	32013009	46	Taper Pin	1	32013015
23	Support Plate	2	32013010	47	Chain	1	32013016
24	Flat Washer	4	50351013	48	Rivet	2	51201007