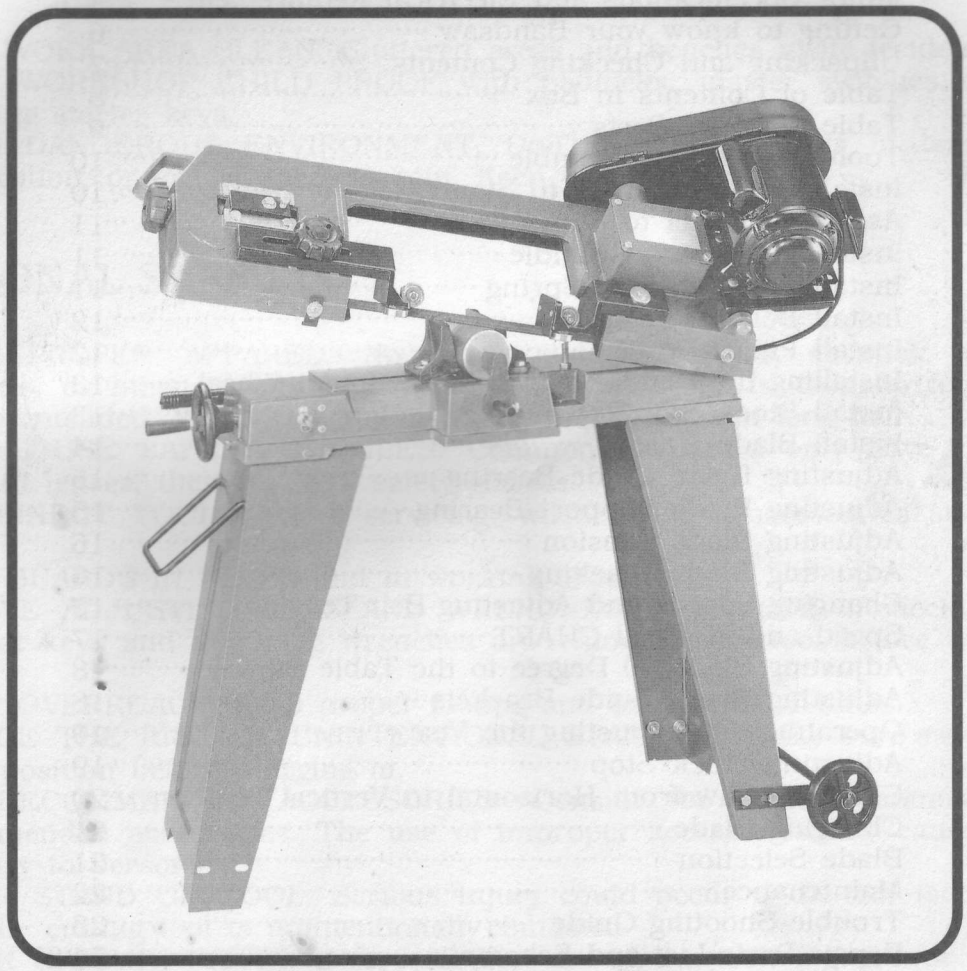
CENTRAL MACHINERY

ITEM CODE:S-37151

4-1/2" METAL CUTTING BANDSAW

INSTRUCTION MANUAL



CAUTION:
IMPORTANT: READ BEFORE USING
Please Fully Assembled tension
Spring Assembly(PARTS NO:21-27)
Prior To Running The Motor
REPAIR AND PARTS: SEE PAGE 24

TABLE OF CONTENTS

GENERAL SAFETY RULES

WARNING

"Read All instructions"Failure to follow the safety rules listed below and other basic safety precautions may result in serious personal injury.

WORK AREA

Keep children away. All visitors should be kept safe distance from work area.

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
2. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
3. AVOID DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lit.

PERSONAL SAFETY

1. WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings bracelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
2. ALWAYS USE SAFETY GOGGLES. Common eyeglasses only have impact resistant lenses, they are NOT safety glasses.
3. DISCONNECT TOOLS before servicing; when changing accessories such as blade.
4. KEEP GUARDS IN PLACE and in working order.
5. REMOVE ADJUSTING KEYS AND WRENCHES. From habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
6. DON'T OVERREACII. Keep proper footing and balance at all times.
7. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
8. USE RECOMMENDED ACCESSORIES. Consult tbe owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
9. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
10. CHECK DAMAGE PARTS. Before further use of the tool. a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function, check for alignment of moving parts, binding of moving parts, breakage of parts, mounting. and any other conditions that may affect its operation. A guard or other part that is damaged slould be properly repaired or replaced.

GENERAL SAFETY RULES

TOOL USE

1. DON'T FORCE TOOL. Don't force tool or attachment to do a job for which it was not designed.
2. USE RIGHT TOOL. It will do the job better and safer at the rate for which it was designed.
3. SECURE WORK. Use clamps or vise to hold work when practical, It's safer than using your hand and it frees both hands to operate tool.
4. NEVER LEAVE TOOL RUNNING UNATTENDED TURN POWER OFF. Don't leave tool until it comes to a complete stop.

TOOL CARE

1. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
2. DO NOT ALTER OR MISUSE TOOL. These tools are precision built. Any alteration or modification not specified is misuse and may result in dangerous condition.
3. AVOID GASEOUS AREAS. Do not operate electric tools in a gaseous or explosive atmosphere. Motors in these tools normally spark and may result in a dangerous condition.

WARNING

Before connecting the tool to a power source (receptacle, outlet, ETC) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user as well as damage to the tool. If in doubt. DO NOT PLUG IN THE TOOL. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

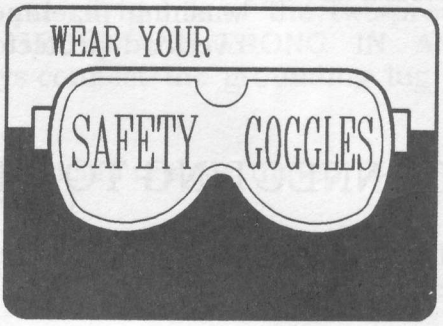
ADDITIONAL SAFETY RULES

THINK SAFETY

SAFETY IS A COMBINATION OF OPERATOR COMMON SENSE AND ALERTNESS AT ALL TIMES WHEN THE BANDSAW BEING USED.

WARNING Do not allow familiarity (gained from frequent use of your bandsaw) to become commonplace. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

WARNING The operation of any power tool can result in foreign objects being thrown into the eyes which can result in severe eye damage. Always wear safety goggles before commencing power tool operation.



LOCATION

Use the bandsaw in a well lit area and on a level surface, clean and smooth enough to reduce the risk of tripps and falls. Use it where neither the operator nor the casual observer is forced to stand in line with a potential kickback.

POTECTION:EYES, HANDS, FACE, EARS AND BODY.

WARNING TO AVOID BEING PULLED INTO THE BITS.

DO NOT WEAR:LOOSE FITTING GLOVES
NECKTIE
LOOSE CLOTHING
JEWELRY

DO TIE BACK LONG HAIR
ROLL LONG SLEEVES ABOVE ELBOWS

WARNING Never place your fingers in a position where they could contact the bits. If the workpiece should unexpectedly shift or your hand should slip.

WARNING If any part of your bandsaw is missing, malfunctioning, has been damaged or broken ··· such as the motor switch or other operating control, a safety device or the power cord ··· cease operating immediately until the particular part is property repaired or replace.

MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

MOTOR SPECIFICATIONS

This bandsaw is designed to use a 1720 RPM motor only. Do not use any motor that runs faster than 1720 RPM. It is wired for operating on 110-120 volts, 60 Hz alternating current.

WARNING To avoid injury from unexpected start-up, do not use blower or washing machine motors or any motor with an automatic reset overload protector.

CONNECTING TO A POWER SOURCE

This machine must be grounded while in use to protect the operator from electric shock.

Plug power cord into a 110-120V properly grounded type outlet protected by a 15-amp dual element time delay fuse or circuit breaker.

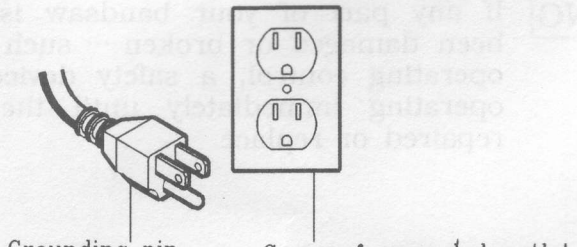
Not all outlets are properly grounded. If you are not sure that your outlet, as picture below, is properly grounded, have it checked by a qualified electrician.

DANGER To avoid electric shock, do not touch the metal prongs on the plug when installing or removing the plug to or from the outlet.

Failure to properly ground this power tool can cause electrocution or serious shock, particularly when used near metal plumbing or other metal objects. If shocked, your reaction could cause your hands to hit the cutting tool.

WARNING If power cord is worn or cut, or damaged in any way, have it replaced immediately to avoid shock or fire hazard.

Your unit is for use on 120 volts; it has a plug that looks like the one below.



Grounding pin Cover of grounded outlet

MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

This power tool is equipped with a 3-conductor cord and grounding type plug. The ground conductor has a green jacket and attached to the tool housing at one end and to the ground prong in the attachment plug at the other end.

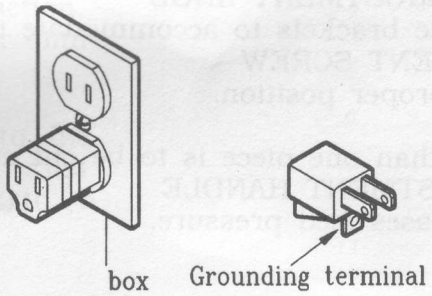
This plug requires a mating 3-conductor grounded type outlet as pictured.

If the outlet you are planning to use for this power tool is of the two-prong type. DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER. Use an adapter as shown and always connect the grounding lug to known ground.

It is recommended that you have a qualified electrician replace the TWO-prong outlet with a properly grounded THREE-prong outlet.

An adapter as shown below is available for connecting plugs to 2-prong receptacles.

WARNING The green grounding lug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.



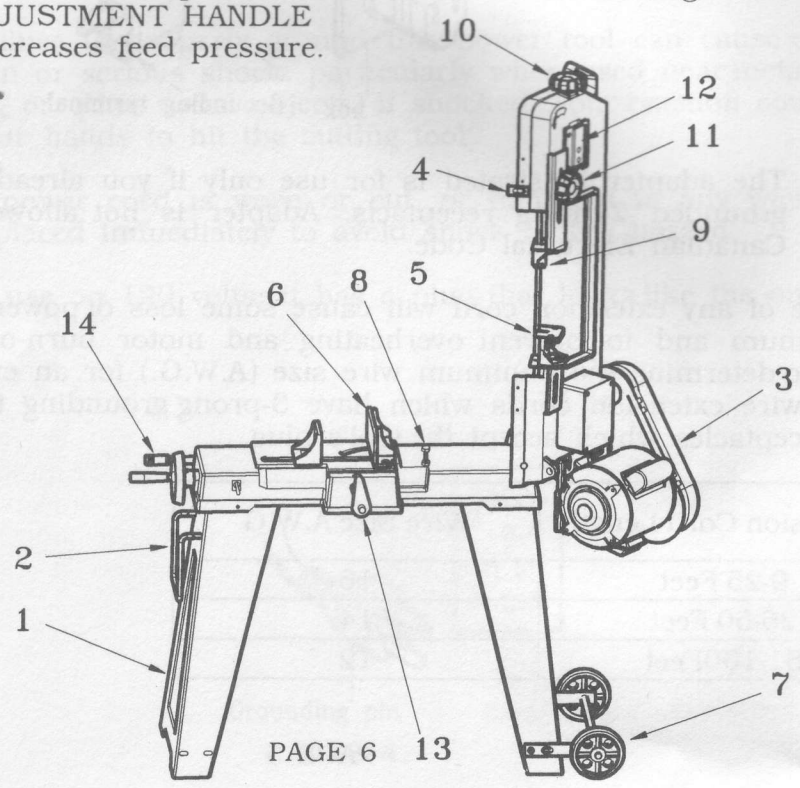
NOTE: The adapter illustrated is for use only if you already have a properly grounded 2-prong receptacls. Adapter is not allowed in Canada by Canadian Electrical Code.

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, use the table below to determine the minimum wire size (A.W.G.) for an extension cord. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole raceptacles which accept the tool's plug.

Extension Cord Length	Wire Size A.W.G
0-25 Feet	16
26-50 Feet	14
51-100Feet	12

GETTING TO KNOW YOUR BANDSAW

1. STAND
   Supports bandsaw, for additional stability, holes are provided in stand. (when wheel assembly is removed) to bolt bandsaw to a supporting surface.
2. HANDLE TO ASSIST MOVING THE BANDSAW TO A NEW LOCATION
   To move bandsaw by lifting stand handle.
3. PULLEY COVER
   Covers pulleys and belt during operation of bandsaw.
4. METAL STOP
   Stop come down to hit switch that will shut off machine automatically right after cutting is finished when machine is in the horizontal position.
5. VERTICAL TABLE
   Provides working surface to support work when use in the vertical position.
6. VISE PLATE
   Provides means to tighten and hold work securely from 0 to 45 degree.
7. WHEELS
   Allows you to easily move machine and support bandsaw when it is lin the vertical position.
8. STOP BOLT N LOCK NUT
   Controls lowest cutting position.
9. BLADE SUPPORT BEARING/GUIDE BEARING
   Keeps blade on proper tracking.
10. BLADE TENSION ADJUSTMENT KNOB
    Controls blade tension.
11. BLADE GUIDE ADJUSTMENT KNOB
    Adjusts blade guide brackets to accommodate the width of the workpiece.
12. BLADE ADJUSTMENT SCREW
    Adjusts blade to proper position.
13. STOCK STOP
    Used when more than one piece is to be cut at the same length.
14. PRESSURE ADJUSTMENT HANDLE
    Increases or decreases feed pressure.



UNPACKING AND CHECKING CONTENTS

WARNING

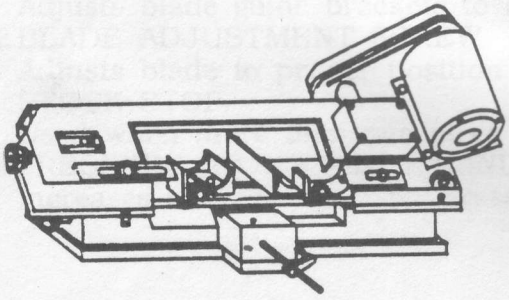
(1)To avoid injury from unexpected starting or electrical shock. Do not plug the power cord into a source of power. This cord must remain unplugged whenever you are working on the bandsaw.

(2)Unpacking and checking contents. Separate all "loose parts" from packaging materials and check each item with "Table of loose parts" to make sure all items are accounted for before discarding any packing material. If any parts are missing, do not attempt to assemble bandsaw, plug in the power cord, or turn the switch on, until missing parts are obtained and are installed correctly.

(3)To avoid fire or toxic reaction, never use gasoline, naphtha or similar highly votatile solvents.

(4)Apply a coat of paste wax to the table and base, to prevent rust. Wipe all parts throughly with a clean dry cloth.

TABLE OF CONTENTS IN BOX



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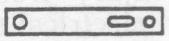

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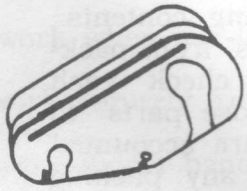

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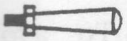

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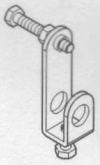

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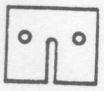

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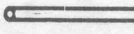

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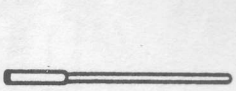
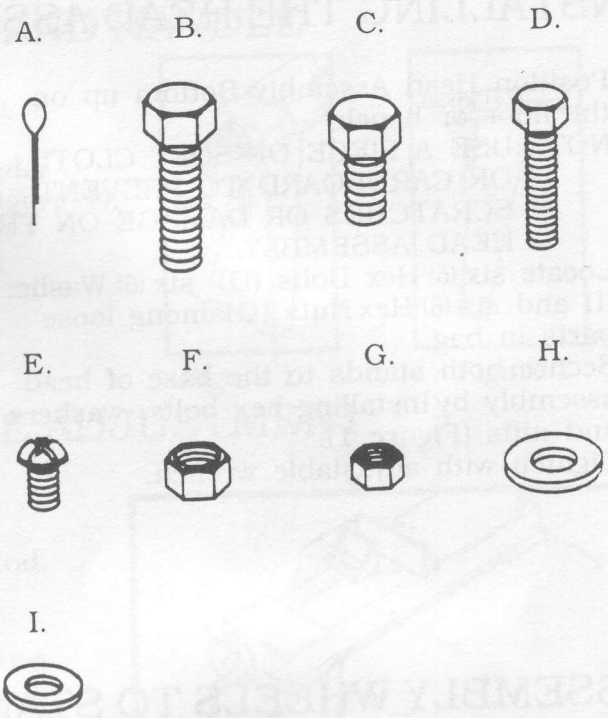


18.

TABLE OF LOOSE PARTS

A.Split Cotter Pin 4
B.Hex Bolt (5/16" x 1-1/4") 1
C.Hex Bolt (5/16 x 3/4") 4
D.Hex Bolt (1/4" x 3/4") 8
E.Screw (1/4") 2
F.Hex Nut (5/16") 5
G.Hex Nut (1/4") 6
H.Washer (5/16") 4
I.Washer (1/4") 8



ASSEMBLY

WARNING

for your own safety. Never connect plug to power source until all assembly steps are completed.

TOOLS NEEDED TO ASSEMBLE

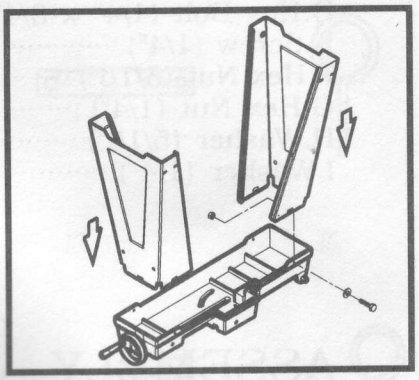
6" Adjustable Wrench, #2 Phillips Screw Driver, 1/4" flat Screw Driver and Allen Wrence (4 MM).

ASSEMBLY

INSTALLING THE HEAD ASSEMBLY TO STAND

(1)Position Head Assembly Bottom up on the floor or bench.
NOTE:USE A PIECE OF SOFT CLOTH OR CARDBOARD TO PREVENT SCRATCHES OR DAMAGE ON THE HEAD ASSEMBLY.
(2)Locate six (6) Hex Bolts (D), six (6) Washers (I) and six (6) Hex Nuts (G)among loose parts in bag.
(3)Secure both stands to the base of head assembly by installing hex bolts, washers and nuts (Figure 1).
(4)Tighten with adjustable wrench.

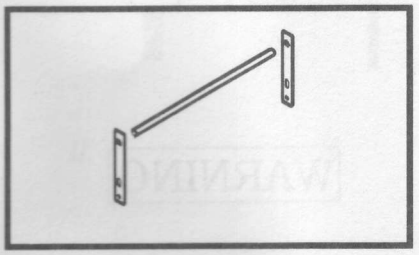
Figure 1



ASSEMBLY WHEELS TO STAND

(1)Locate two (2) Wheels, two (2) Wheel Brackets, one (1) Wheel Shaft and two (2) split cotter pins (A). four (4) Hex Bolts (C), four (4) Washers (H) and four (4) Hex Nuts (F) among loose parts in bag.
(2)Align a hole on each wheel bracket with each end of wheel shaft (Figure 1)
(3)Slide wheel bracket into shaft about 2".
(4)Align two holes of each wheel bracket with two holes on bottom of stand (figure 2).
NOTE:THE WHEELS NEED TO BE INSTALLED RIGHT UNDER THE MOTOR END OF HEAD ASSEMBLY···
(5)Secure wheel bracket to stand by installing hex bolts, washers and nuts.
(6)Tighten with adjustable wrench (Figure 3).
(7)Secure wheel on shaft by inserting cotter pin to each end of shaft and bend the split end by hand (figure 4).

Figure 1



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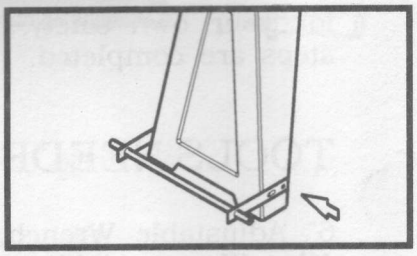


Figure 3

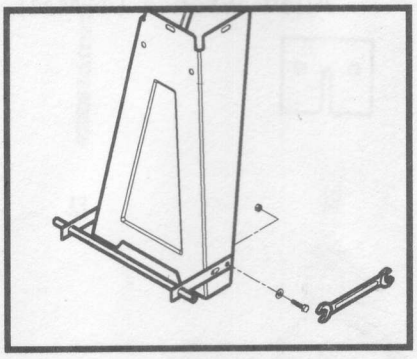
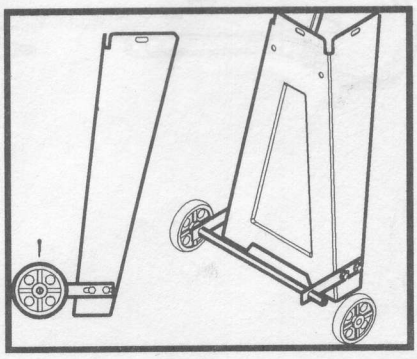


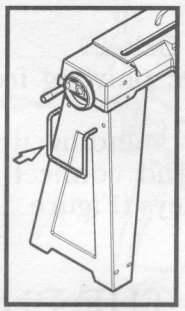
Figure 4



ASSEMBLY

INSTALLING THE FLOOR STAND HANDLE

(1)Locate two (2) split cotter pins (A) among loose parts in bag.
(2)Align two ends of handle with holes (under vise adjustment handle) on the stand (Figure 1).
(3)Insert handle into the hole and secure it by inserting split cotter pin on each end and bend split end by hand (Figure 2).



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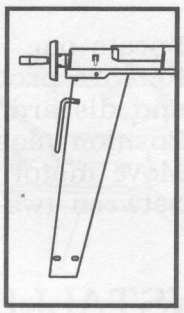
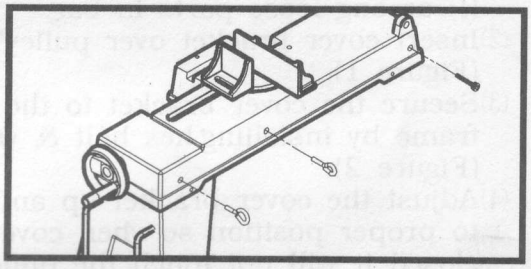


Figure 2

INSTALLING THE PRESSURE ADJUSTMENT HANDLE/SPRING

(1)Locate one (1) Spring, one (1) Adjusting Rod, one (1) Spring Adjusting Screw, one (1) eye bolt (14) one (1) eye bolt (15) one Hex Bolt (B) and one Hex Nut (F) among loose parts iin bag.
(2)Place hex nut on bolt, then screw hex bolt with hex nut to the threaded hole on the body frame bracket. Use hex nut to tighten bolt against frame with bolt extending out.
(3)Screw eye bolt (15) into middle hole on side of bed and tighten with hex nut (Figure 1).
(4)Screw eye bolt (14) into the hole located right end and tighten with hex nut (Figure 1).
(5)Hang spring with closed end on the extended hex bolt (Figure 2).
(6)Hang spring adjusting screw on the hook end of spring (Figure 2).
(7)Insert adjusting rod through eye bolt (14) until reach small nut plate (Figure 3).
(8)Insert adjusting screw connecting to spring through eye bolt (15) and align adjusting screw with threaded hole on end of pressure adjustment handle.
(9)Install adjusting screw to pressure adjustment handle by turning adjusting rod to proper tension. (Figure 4)



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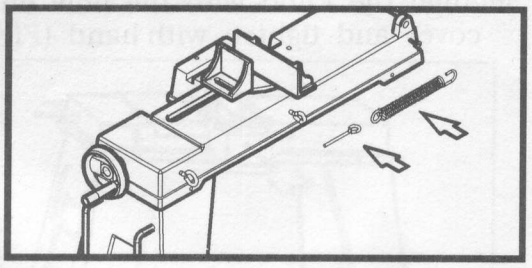

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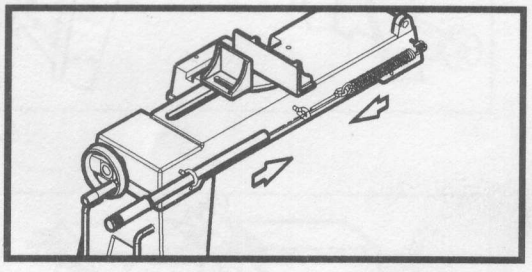


Figure 3

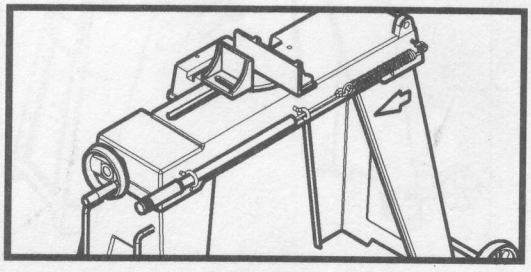


Figure 4

CAUTION:
Please Fully Assembled Tension Spring Assembly (PARTS NO:21-27) Prior To Running The Motor

ASSEMBLY

INSTALLING THE BELT TO PULLEY

(1)Locate one (1) V Belt (18) .
(2)Remove protective polybag from motor and discard.
(3)Position machine standing up on floor.
(4)Move motor up and connect V belt between two pulleys (Figure 1).

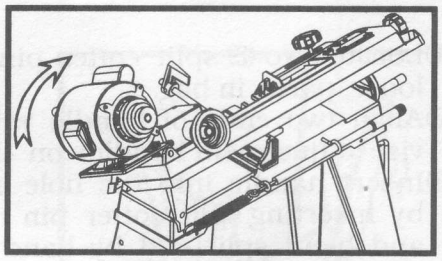
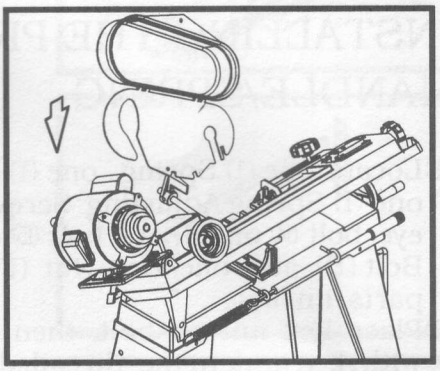


Figure 1

INSTALLING THE PULLEY COVER

(1)Locate one (1) pulley Cover Knob, two (2) Hex Bolts (D) and two (2) Washers (I) among loose parts in bag.
(2)Insert cover bracket over pulley's spindle (Figure 1).
(3)Secure the cover bracket to the body frame by installing hex bolt & washer (Figure 2).
(4)Adjust the cover bracket up and down to proper position so when cover is closed it will not touch the pulley.
(5)Tighten with adjustable wrench.
(6)Align the knob with the hole on the cover and tighten with hand (Figure 3).



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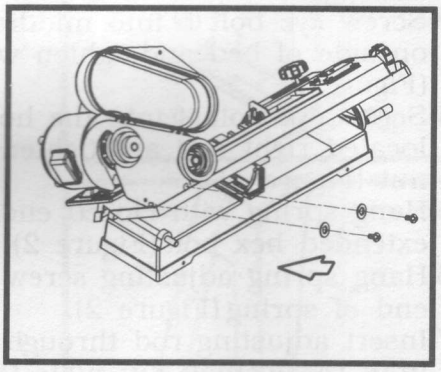

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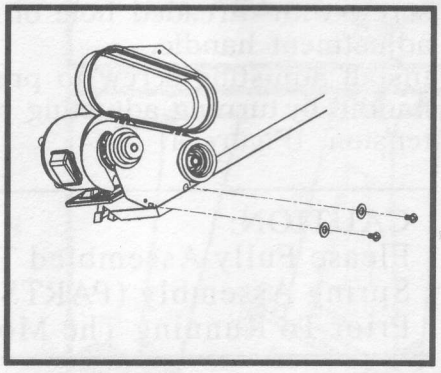


Figure 3

ASSEMBLY

INSTALLING THE HANDER FOR VISE ADJUSTMENT WHEEL

(1)Screw off hex nut from handle.
(2)Insert screw end of handle into hole on wheel and secure with hex nut (Figure 1).
(3)Tighten with flat screw driver.(Figure 2)

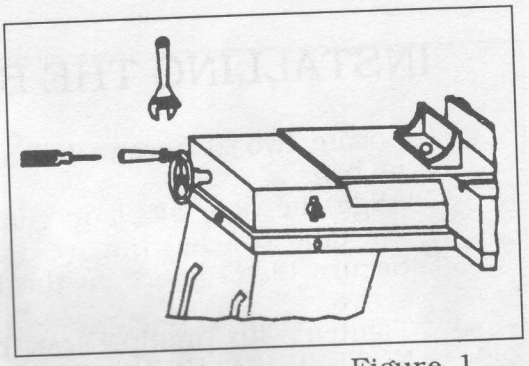


Figure 1

INSTALLING THE STOCK STOP/STOCK ROD

(1)Locate a hole in the middle of the side of bed (on switch side).
(2)align stop rod with hole and insert stop rod into hole about 3" (Figure 1).
(3)Locate set screw on top of bed and tighten with allen wrench (4MM) (Figure 2).
(4)Align hole of stock stop with stop rod, slide stock stop into rod to the position you want (Figure 3).
(5)tighten stock stop face up with adjustable wrench (Figure 4).

Figure 1

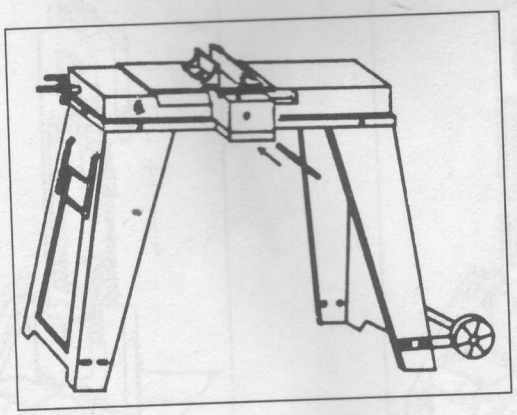


Figure 3

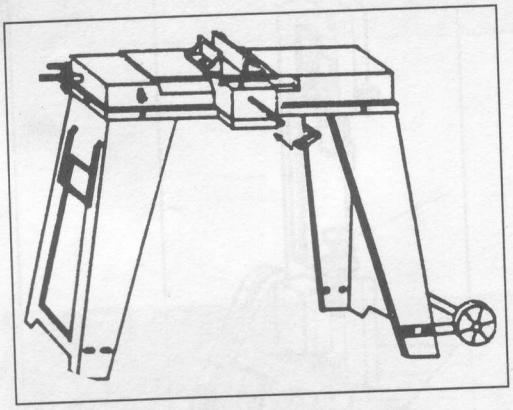


Figure 2

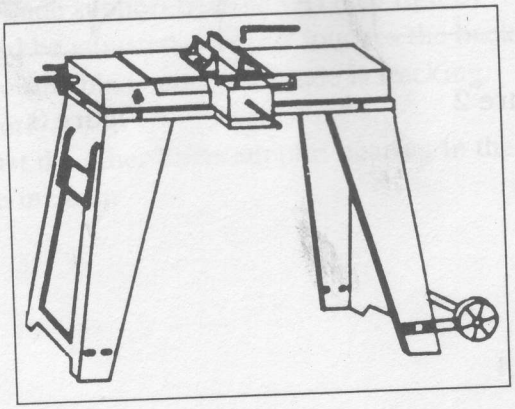
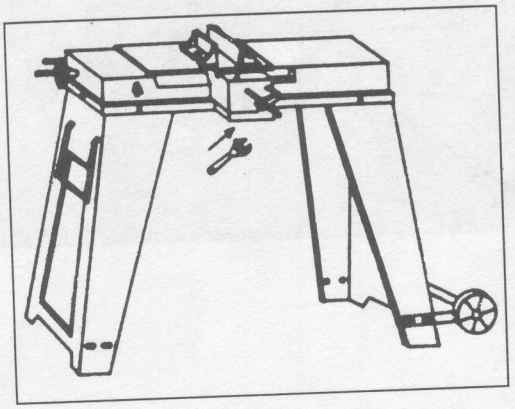


Figure 4



ASSEMBLY

INSTALLING THE BALDE GUARD

(1)Locate two (2) Screws (E) among loose parts in bag.
(2)Align the hole of blade guard with hole of the table bracket (Figure 1).
(3)Secure blade guard to the bracket by installing screw.
(4)Tighten with phillip screw driver (Figure 2).
NOTE:WHEN USING IN VERTICAL POSITION ONLY, YOU CAN USE CUTTING PLATE ACCESSORY INCLUDED TO ACT AS A TABLE TO SUPPORT WORK. (IN VERTICAL POSITION ONLY) (Figure 3).

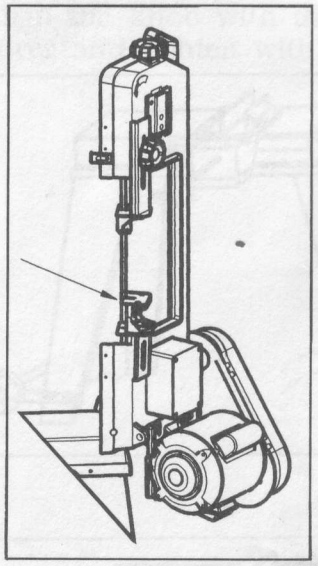


Figure 1

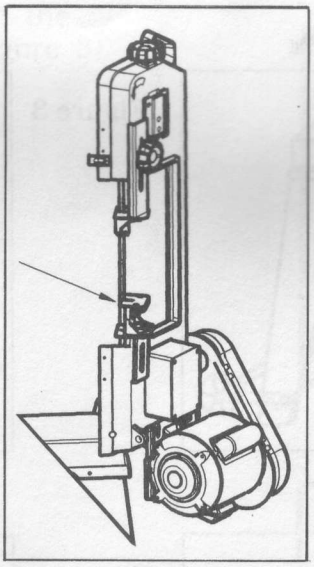


Figure 2

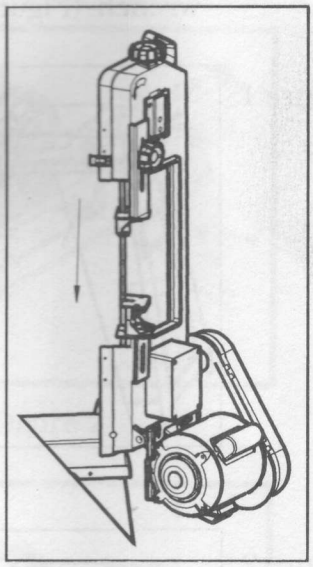
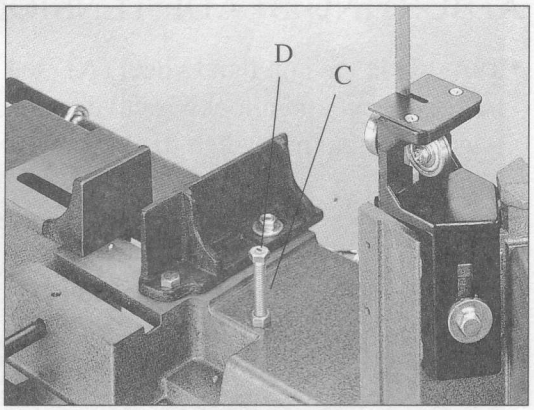


Figure 3

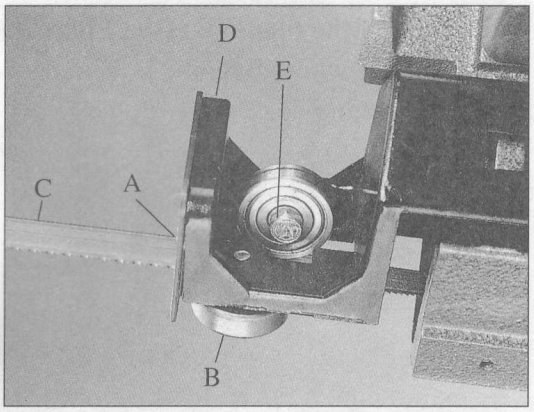
OPERATING CONTROLS AND ADJUSTMENTS

The downward travel of the saw should be adjusted to just trip the toggle switch at its lowest position. To adjust the downward travel of the saw arm, loosen lock nut (C)(seefigure), and turn the stop screw (D) in or out until the correct adjustment is made; then tighten lock nut (C).



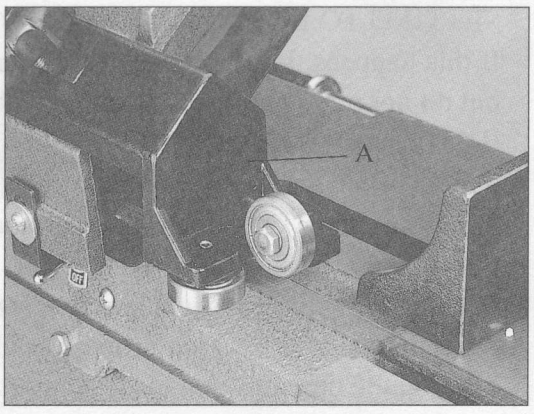
ADJUSTING BLADE GUIDE BEARINGS

1. Disconnect the machine from the power source.
2. The blade guide bearings (A) and (B) (see figure), should be adjusted so they just touch the sides of the blade (C) after the blade is tracking properly and the blade support bearing has been adjusted. To adjust, proceed as follows;
3. Remove the cover plate that is attached to the face of thee right guide bracket (D) (see figure).
4. the inside guide bearing (A) (see figure) is mounted to a fixed shaft and cannot be adjusted. The outside guide bearing (B)is mounted on an eccentric shaft and should be adjusted so that the sides of the blade (C)just contact the guide bearings (A) and (B)To adjust, loosen screw (E)until proper adjustment is made.Then tighten screw (E).
5. Adjust the other blade guide bearings lin the same manner.



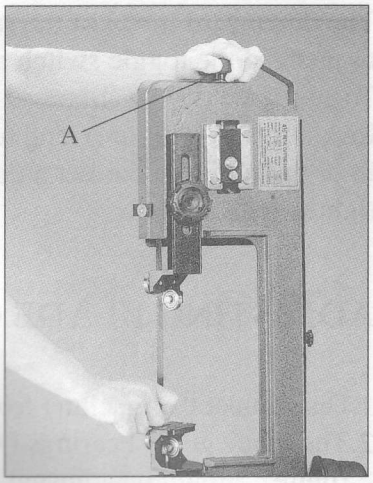
ADJUSTING BLADE SUPPORT BEARING

1. Disconnect the machine from the power source.
2. The blade support bearing (A) (see figure) should be adjusted so it just touches the back of the saw blade after the blade is tracking properly.
3. Adjust the other blade support bearing in the same manner.



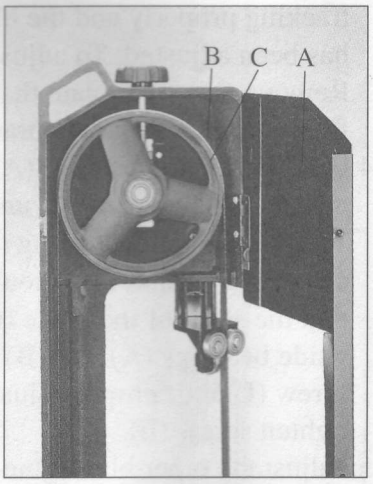
OPERATING CONTROLS AND ADJUSTMENTS

ADJUSTING BLADE TENSION

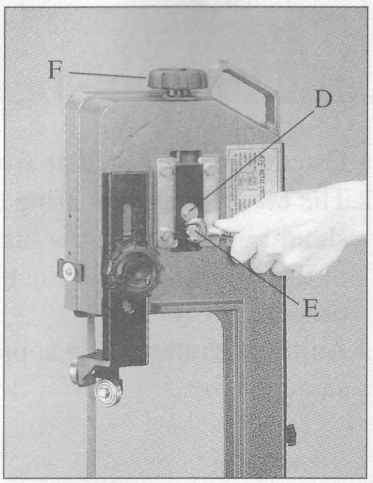


- Turn blade tension handwheel (A) (see figure),clockwise to increase or counterclockwise to decrease blade tension.Correct tension is obtained when the blade is just tight enough so that no slippage occurs between the blade and the wheels.
- When the machine is not in use, release the blade tension.

ADJUSTING BLADE TRACKING

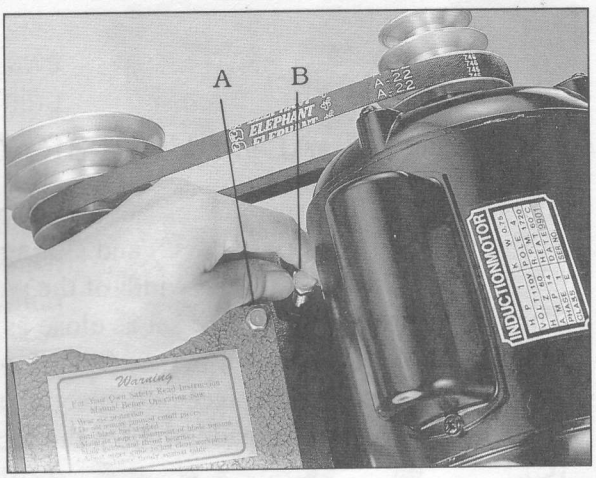


1. Place the saw arm in the vertical position and open the wheel cover (A) (see figure-1).
2. Turn on the band saw. The blade is tracking properly when the back of the blade (B) (see figure-1), is just touching the edge of the wheel flange (C). The back of the blade should not be rubbing against the flange.
3. If and adjustment is necessary, the blade guide bearings and blade support bearings should be clear of the blade.
4. Loosen screw (D) (see figure-2) to a point where it is loose but snug.
5. With the band saw running, turn adjusting screw (E) until the blade is tracking properly making certain blade tension is maintained by turning blade tension knob (F). The blade is tracking properly when the back side of the saw blade just touches the flange on the wheel.
6. Tighten screw (D) (see figure-2) when adjustment is complete.
7. IMPORT:IT IS POSSIBLE WHEN MAKING THIS ADJUSTMENT TO OVER TIGHTEN THE ADJUSTING SCREW (E) (SEE FIGURE-2) AND CAUSE THE BASIC SETTING TO BE MIS-ALIGNED.
   If this happens, loosen the adjusting screw (E) several turns but do not remove it from its threaded hole and loosen screw (D). Turn screw (D) clockwise until its stops but do not tighten. Then turn the adjusting screw (E) clockwise until it bottoms. Turn on the machine and turn adjusting screw (E) clockwise a small amount at a time until the blade is tracking correctly and tighten screw (D) (see figure-2).
8. After the blade is tracking properly make sure to adjust the blade guide bearings and blade support bearings.



OPERATING CONTROLS AND ADJUSTMENTS

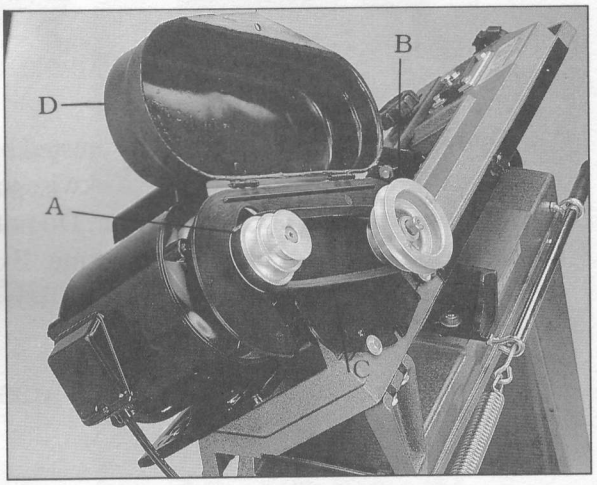
CHANGING SPEEDS AND ADJUSTING BELT TENSION



Disconnet machine from the power source before changing speeds and adjusting belt tension.

Proper belt tension is obtained when there is approximately 1/4" deflection of the belt using light finger pressure at the center span of the pulleys. To adjust belt tension, loosen lock nut (A) (see figure 1) and turn adjusting screw (B) clockwise to increase tension and counter-clockwise to decrease tension. Tighten locknut (A) (see figure-1) after belt tension is obtained.

When changing speeds, release belt tension and open belt and pulley guard cover (D) (see figure-2). Speed rates of 80, 120, and 200 feet per minute are available with your band saw. When the belt is on the largest step of the motor pulley (A) (see figure-2), and the smallest step of the gear box pulley (B) the blade speed will be 200 feet per minute. When the belt is on the smallest step of the motor pulley (A) and the largest step of the gear box pulley (B) the blade speed will be 80 feet per minute. When changing speeds, first release belt tension. After the desired speed is obtained, adjust belt tension and close belt and pulley guard cover (D).



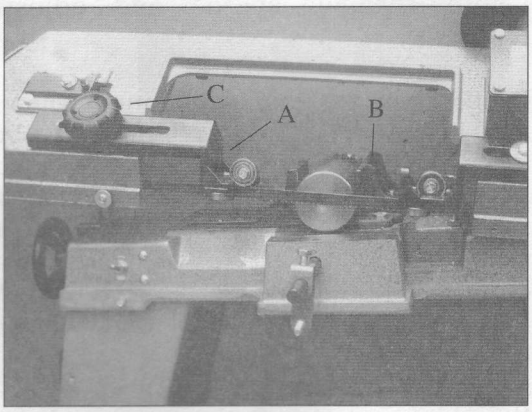
SPEED AND MATERIAL CHART

Chart illustrates the correct speeds and the position of the belt on the motor and gear box pulleys for most common materials cut on the bandsaw.

MATERIAL TO BE CUT	SPEED	BELT POSITION	
		MOTOR PULLEY	GEAR BOX PULLEY
Tool Steel Stainless Steel Alloy Steel Hard Bronze	80FPM	Small	Large
Mild Steel Medium Hard Brass Medium Hard Bronze	120FPM	Middle	Middle
Soft Brass Aluminum Plastic Other Light Materials	200FPM	Large	Small

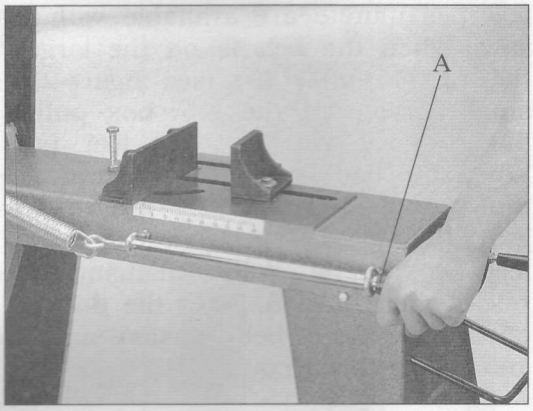
OPERATING CONTROLS AND ADJUSTMENTS

ADJUSTING BLADE GUIDE BRACKETS



The left and right blade guide brackets (A) and (B), are adjustable by lock knobs (C) and sliding the brackets to accommodate the width of the workpiece. The guide brackets should be set as close as possible to the workpiece, as shown in (see figure), without interfering with the workpiece or contacting the table. Once the adjustment is made, tighten the lock knobs (C).

ADJUSTING FEED RATE



The feed rate of the saw arm can be adjusted by turning the control arm (see figure) counter-lockwise to increase or clockwise to decrease the feed rate. Do not turn the control arm more than one turn at a time. Excessive feed pressure can break the blade. Insufficient feed pressure dulls the blade rapidly.

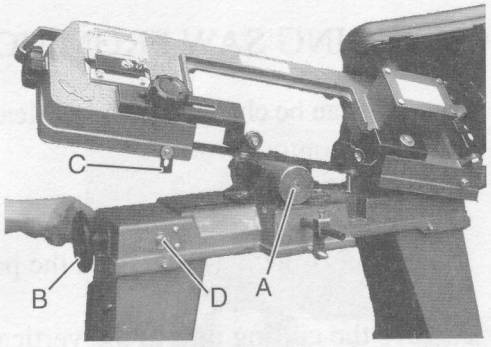
OPERATING CONTROLS AND ADJUSTMENTS

OPERATING AND ADJUSTING THE VISE

See Figure 1.

1. The workpiece (A) is placed between the vise jaws with the required amount to be cut off extending out past the blade. To tighten the workpiece in the vise, turn the handwheel (B).
2. This machine, if used in the horizontal position, will shut off automatically after cutting is finished. This is done when the metal stop (C) hits the switch (D), causing the machine to shut off.

Figure 1

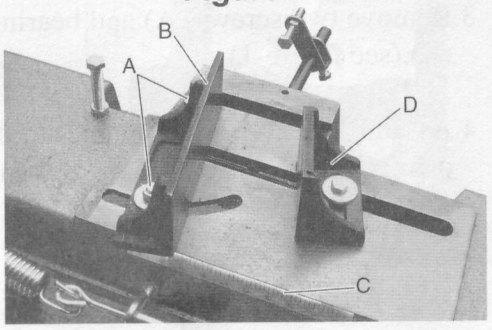


See Figure 2.

3. The vise can be adjusted to cut any angle from 0°-45° by loosening the two screws (A) and positioning the vise jaw (B) to the desired angle. A scale (C) is positioned on the rear of the table to give the proper cutting angle.

Note: When cutting at an angle, it may also be necessary to move the left vise jaw (D) to clear the blade guide bracket.

Figure 2



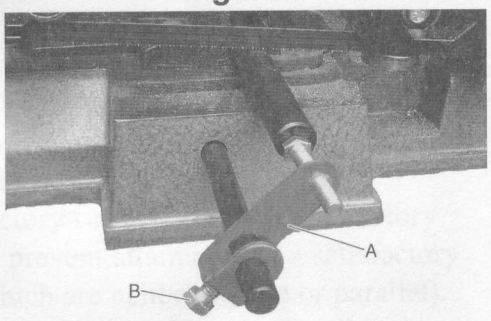
ADJUSTING STOCK STOP

The stock stop is used when more than one piece is to be cut to the same length.

See Figure 3.

1. Position the stop block (A) the desired distance away from the blade. It is good practice to have the work contact the stop near the bottom of the work, as shown.
2. The stop can slide in or out by loosening the set screw (B) and moving the stop.
3. When not using the stock stop simply swing the stop out of the way below the table surface.

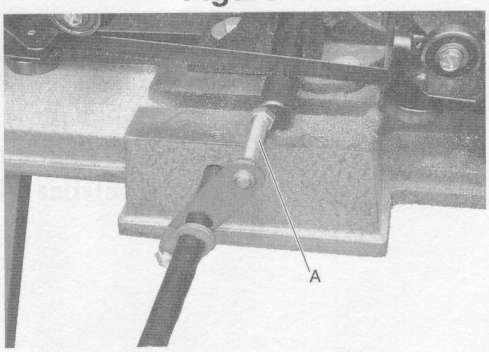
Figure 3



See Figure 4.

4. For cuts where the work will not extend beyond the table, the Bolt (A) on the stop can be adjusted to contact the workpiece.

Figure 4



BASIC OPERATION

CHANGING SAW FROM HORIZONTAL TO VERTICAL POSITION

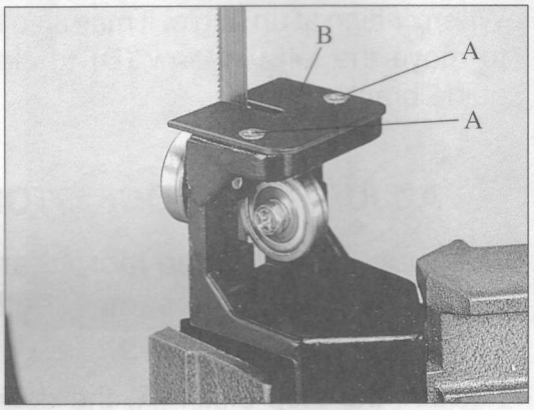
Your saw can be changed to the vertical position notching, slitting or contour work as follows:

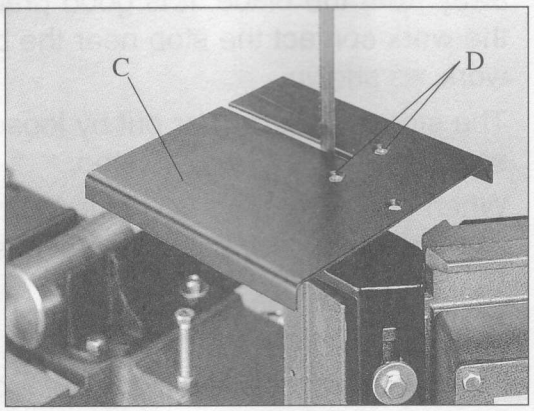
1.Disconnect the machine from the power source.

2.Move the cutting arm to the vertical position (looscn the tension on the coil spring by turning the handle,and the cutting arm will stay up)

3.Remove two screws (A) and bearing cover plate (B).(see figure-1)

4.Assemble the vertical table (C) to the guide bracket using the two screws (D), as shown in (see figure-2).

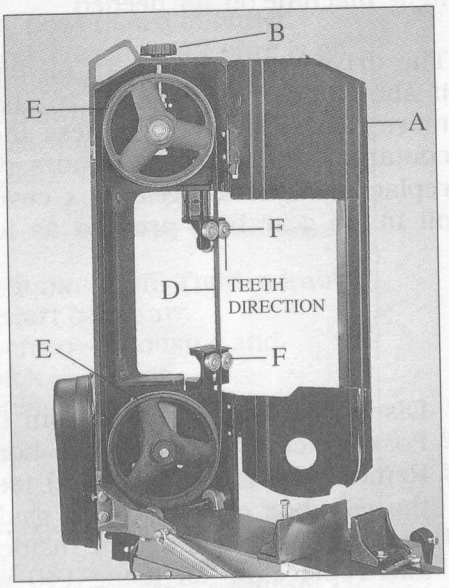




BASIC OPERATION

CHANGING BLADES

1.Disconnect the machine from the power source.
2.Raise the saw arm to the vertical position and open the blade wheel cover (A) (see figure).
3.Release blade tension by turning blade tension hand knob (B).
4.Remove the two finger guards (C).
5.Slip blade (D) off both wheels (E) and guide assembles (F).
6.Place the blade between each of the blade guide bearings (F) and around both wheels (E).NOTE: The teeth must be pointing down on the right hand side as shown by the directional arrow in.
7.Replace finger guard (C) and adjust blade tension by turing hand knob (B).
8.Close the blade wheel cover (A).



BLADE SELECTION

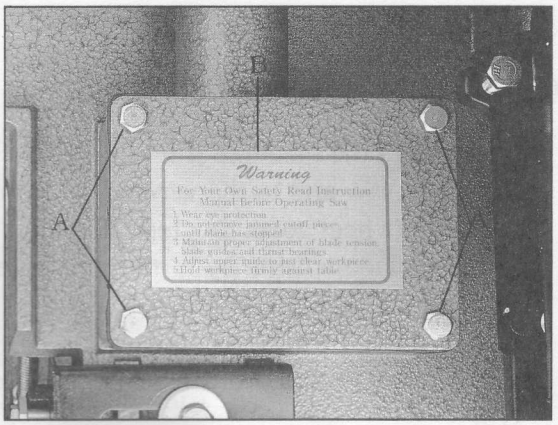
1.Your band saw uses 1/2" wide, 64-1/2" wide, 64-1/2" long and .020-.025thick. 14 teeth per inch and 24 teeth per inch blades.
2.Never use a blade so coares that less than three consecutive teeth are engaged in the workpiece at one time.(Too few teeth will cause the teeth to strip out.)
3.Never use a blade finer than required to obtain a satisfactory surface finish or satisfactory flatness (Too many teeth engaged in the workpiece will prevent attainment of a satisfactory sawing rate, frequently produce "dished" cuts or cuts which are neither square or parallel).
4.When thiin rectangular sholid bar is to be sawed, the work should, whenever possible, be loaded with the thinnest cross section exposed to the blade teeth.The pitch (number of teeth per inch of blade) slected must
provide engagement of at least three consecutive teeth in the workpiece should application of this rule not be possible because the thinnest cross section is too thin, the piece must be loaded with the wider dimension exposed to the saw teeth and a coarse blade selected.
5.When thin wall pipe or channel iron are cut a 14 pitch (number of teeth per inch of blade) is used. Fewer than 14 teeth per inch will almost never be satisfactory.

MAINTENANCE

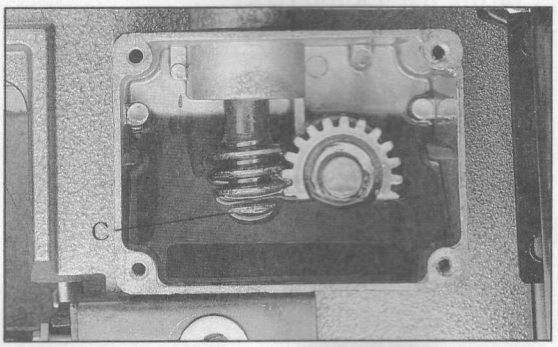
LUBRICATION

The vise lead screw should be lubricated using light machine oil as needed.

The drive gears run in an oil bath gear box and it should not be necessary to change this oil more than once a year unless the oil becomes contaminated or a leak occurs due to improper replacement of the gear box cover. To change oil in the gear box, proceed as follows:



1. Disconnect the machine from the power source.
2. Position cutting arm in the horizontal position.
3. Remove the four screws (A) (see figure-1), and the gear box cover (B) and gasket.
4. Remove the old oil from inside the gear box and replace the oil using 140 weight gear oil. The new oil should just come to the edge (C) (see figure-2) of the gear box. Do not overflow. Replace the cover, gasket and four screws that were removed in step 3.



TROUBLE SHOOTING GUIDE

TOUBLE	PROBLEM	REMEDY
Bandsay won't start	1. Bandsaw is not plugged in. 2. Household circuit has blown fuse or open circuit breaker. 3. Power cord is damaged. 4. Switch is not in "on" position. 5. Motor burn out. 6. Switch burn out.	1. Plug power cord in outlet. 2. Check circuit make sure is on. 3. Replace power cord. 4. Turn switch on. 5. Replace motor. 6. Replace switch.
Bandsaw blade does not move although motor is running.	1. Blade tension knob is not tight. 2. Blade has slipped off pulley wheel. 3. Blade is broken.	1. Turn motor off. Tighten knob. Restart bandsaw. 2. Open cover housing and check. 3. Replace blade.
Blade will not cut or cuts slowly	1. Teeth have been dulled by contact with hardened steels or long usage. 2. Use higher speed setting. 3. Blade mounted backwards.	1. Replace blade. 2. Change speed. 3. Change to correct position.
	Sawdust fills up inside of bandsaw.	1. This is normal-clean out periodically. 2. Remove cover housing. Use vacuum cleaner to remove sawdust.
	Sawdust in motor housing	1. Use vacuum cleaner nozzle on air intake and exhaust grilles. 2. Keep workplace cleaner. Clean up excess sawdust frequently.
Unable to get blade to track in driver of wheel.	1. Backing bearing not properly adjusted. 3. Tension wheel not properly adjusted. 3. Bad blade.	1. Adjusts backing bearings to properly position. 2. Adjusts wheel tension. 3. Replace blade.

REPAIR PARTS LIST AND SCHEMATIC

REPLACEMENT PARTS

Replacement parts for this tool are available by placing an order.

1. Part number.
2. Purchase date.
3. Shipping address.

INDEX NO.	DESCRIPTION	Q'TY
1	BASE	1
2	SUPPORTING PLATE COVER SEAT	1
3	HEX SCREW (5/16"x3/4")	7
4	WASHER	16
5	PIVOTING ROD	1
6	PLASTIC SLEEVE	1
7	STOCK STOP ROD	1
8	STOCK STOP	1
9	CORD CLAMP PLATE	1
10	PAN SCREW (3/16"x3/8")	2
11	SET SCREW (5/16"x1/4")	5
12	SWITCH	1
13	SWITCH BOX	1
14	VISE NUT	1
15	LEAD SCREW	1
16	HANDLE WHEEL	1
17	HANDLE	1
18	SCALE	1
19	HEX NUT (3/8")	2
20	HEX SCREW (3/8" x2-1/2")	1
21	HEX SCREW (5/16"x1")	5
22	HEX SCREW (5/16")	12
23	SPRING	1
24	SPRING ADJUSTING SCREW (1/4")	1
25	EYE BOLT (SMALL 5/16")	1
26	EYE BOLT (LARGE 5/16")	1
27	ADJUSTING ROD	1

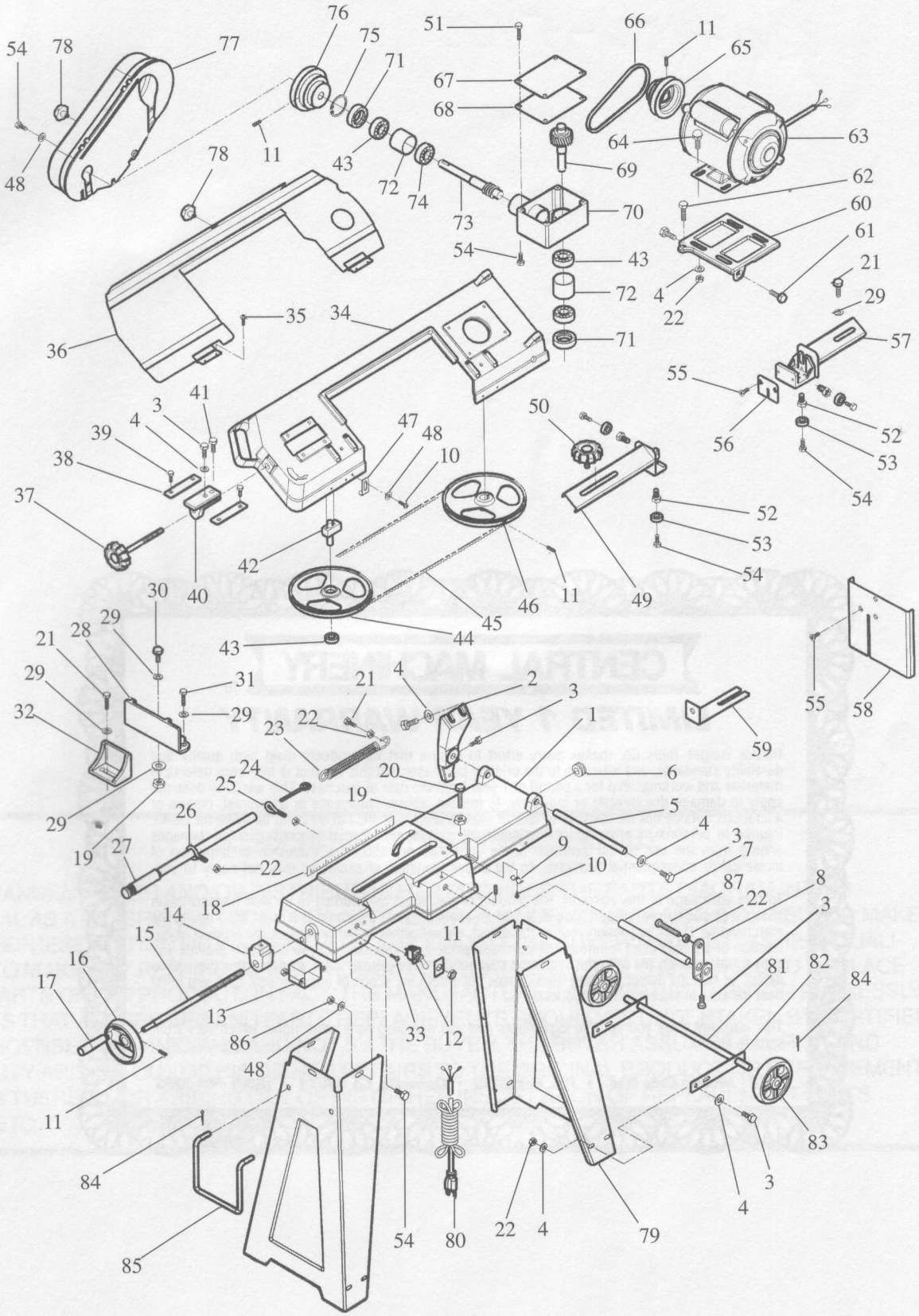
REPAIR PARTS LIST AND SCHEMATIC

INDEX NO.	DESCRIPTION	Q"TY
28	MITERING VISE PLATE	1
29	WASHER (5/16")	5
30	HEX SCREW (3/8" x1-1/4")	1
31	HEX SCREW (3/8" x3/4")	1
32	MOVABLE VISE PLATE	1
33	PAN SCREW (3/16" x3/4")	2
34	BODY FRAME	1
35	PAN SCREW (3/16" x1/4")	4
36	BLADE BACK SAFETY COVER	1
37	BLAND TENSION ADJUSTABLE KNOB	1
38	BLADE TENSION SLIDING GUIDES	2
39	HEX SCREW (5/16" x1/2")	5
40	BLADE TENSION SLIDING PLUTE	1
41	HEX SCREW (5/16" x1-1/4")	1
42	BLADE WHEEL SHAFT	1
43	BEARING	4
44	BLADE WHEEL (REAR)	1
45	BLADE	1
46	BLADE WHEEL (FRONT)	1
47	METAL STOP	1
48	WASHER	9
49	BLADE GUARD (LEFT)	1
50	BOLT	1
51	HEX SCREW (1/4" x1/2")	4
52	GUIDE PIVOT	6
53	BEARING	6
54	HEX SCREW (1/4" x3/4")	16
55	SCREW (1/4" x3/4")	3
56	GUIDE PLATE	1

REPAIR PARTS LIST AND SCHEMATIC

INDEX NO.	DESCRIPTION	Q"TY
57	BLADE GUARD (RIGHT)	1
58	VERTUCAL CUTTING PLATE	1
59	BRACELET	1
60	MOTOR MOUNT PLATE	1
61	HEX SCREW (1/2"x1")	2
62	HEX SCREW (5/16"x2")	1
63	MOTOR	1
64	SCREW (5/16"x1/2")	4
65	MOTOR PULLEY	1
66	BELT (A-22)	1
67	CEAR BOX COVER	1
68	COVER GASKET	1
69	TRANSMISSION WHEEL SEAT	1
70	CEAR BOX	1
71	OIL SEAL	2
72	PLASTIC BEARING SLEVE	2
73	WORM GEAR	1
74	BEARING	1
75	C-RING	1
76	WORM GEAR PULLEY	1
77	PULLEY COVER	1
78	PLUM SCREW	2
79	FLOOR STAND	2
80	ELECTRIC CORD	1
81	WHEEL SHAFT	1
82	WHEEL BRACKET	2
83	WHEEL	2
84	SPLIT COTTER PIN	4
85	FLOOR STAND HANDLE	1
86	HEX NUT (1/4")	6
87	HEX SCREW (5/16" x 2")	1

REPAIR PARTS LIST AND SCHEMATIC



CENTRAL MACHINERY®

LIMITED 1 YEAR WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for a period of 1 year from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidental, repairs or alterations outside our facilities, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

3491 Mission Oaks Blvd. • P.O. Box 6009 • Camarillo, CA 93011 • (800) 444-3353

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