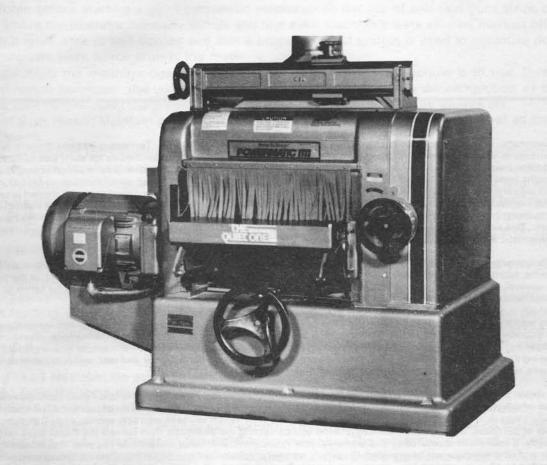
Model 225 24" (610mm) Planer

Price \$2.50

MAINTENANCE INSTRUCTIONS AND PARTS LIST



Better By Design® POWERMATC*

McMINNVILLE, TENNESSEE 37110 AC 615-473-5551

FOREWORD

SAFETY FIRST!

This manual has been prepared for the owner and operators of a Powermatic Planer. Its purpose, aside from machine operation, is to promote safety through the use of accepted operating practices. Read the safety and operating instructions thoroughly before operating the machine.

In order to obtain maximum life and efficiency from your Powermatic Planer, follow all the instructions in the operating instructions and maintenance manuals carefully.

The specifications put forth in this manual were in effect at the time of publication. However, owing to Powermatic's policy of continuous improvement, changes to these specifications may be made at any time without obligation on the part of Powermatic.

WARRANTY

Powermatic, a Division of Stanwich Industries, Inc., Morrison Road, McMinnville, Tennessee 37110 ("Powermatic") warrants to its authorized distributors of Powermatic products and the original purchasers for such distributors, all products manufactured by Powermatic to be free of defects in material and workmanship for a period of twelve (12) months from the date of delivery from its authorized distributors or 2000 hours of use, whichever occurs first. During said warranty period Powermatic will, at its option, repair or replace any product (or component part thereof proving defective during said period. This warranty applies only to products which are used in accordance with all instructions as to operation, maintenance and safety set forth in the catalogs, manuals, and/or instruction sets furnished by Powermatic. This warranty becomes effective only if the accompanying card is fully and properly completed and returned to Powermatic within ten (10) days from date of delivery to the original purchaser.

This warranty does not apply to items that would normally be consumed or require replacement due to normal wear (blades, lubricants, etc.); to electrical motors and components which are warranted by their manufacturer; or the costs of removal, shipment for service and reinstallation. Claims relating to electrical components must be taken to the component manufacturer's local authorized repair station for service.

This warranty is null and void if the product has been subjected to (1) misuse, abuse or improper service or storage; (2) accident, neglect, damage or other circumstances beyond Powermatic's control; (3) modifications, disassembly tampering, alterations or repairs outside of Powermatic's factory not authorized by Powermatic; or to any product not bearing its original serial number plate. This warranty does not apply to normal wear and tear, corrosion, abrasion, or repairs required due to natural causes or acts of God.

To obtain the fastest possible warranty service you must first notify in writing the authorized Powermatic distributor from whom you purchased the product specifying (1) the product by catalog number and serial number, (2) the date the product was delivered to you, (3) a description of the problem for which you seek warranty service, and (4) evidence of proof of purchase. Should circumstances prohibit you contacting the distributor then contact the Powermatic factory directly. If your claim is covered by this warranty, your Powermatic distributor will provide you with instructions as to how and where service will be provided. On simple warranty replacement or repairs, installations instructions will be provided to allow correction by customer personnel. Powermatic assumes no responsibility for products which are returned without its prior written authorization. Powermatic's obligation under this warranty shall be exclusively limited to repairing or replacing (at Powermatic's option) products which are determined by Powermatic to be defective upon delivery, F.O.B. (return freight paid by customer) Powermatic's factory, and on inspection by Powermatic. In no event shall Powermatic's liability under this warranty exceed the purchase price paid for the product.

THIS IS POWERMATIC'S SOLE WRITTEN WARRANTY. ANY AND ALL OTHER WARRANTIES WHICH MAY BE IMPLIED BY LAW, INCLUDING ANY WARRANTIES FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. POWERMATIC SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE, OR EXPENSES DIRECTLY OR INDIRECTLY RELATED TO THE USE OF ITS PRODUCTS OR FROM ANY OTHER CAUSE OR FOR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION, LOSS OF TIME, INCONVENIENCE, AND LOSS OF PRODUCTION). THE WARRANTY CONTAINED HEREIN MAY NOT BE MODIFIED AND NO OTHER WARRANTY, EXPRESS OR IMPLIED, SHALL BE MADE BY OR ON BEHALF OF POWERMATIC.

PLANER SAFETY INSTRUCTIONS

- Read, understand, and follow the safety and operating instructions found in this manual. Know the limitations and hazards associated with this planer. A safety rules decal is installed on each machine to serve as a reminder of basic safety practice.
- Grounding of the planer: Make certain that the machine frame is electrically grounded and that a
 grounding lead is included in the incoming electrical service. In cases where a cord and plug are used,
 make certain that the grounding lug connects to a suitable ground. Follow the grounding procedure
 indicated by the National Electric Code.
- 3. Eye safety: Wear an approved safety shield, goggles, or glasses to protect eyes when operating the
- 4. Personal protection: Before operating the machine, remove, tie, rings, watch and other jewelry and roll up sleeves above the elbows. Remove all loose clothing and confine long hair. Protective type footwear should be worn and hearing protectors should be used where noise exceeds the level of exposure allowed in section 1910.95 of the OSHA regulations. Do not wear gloves.
- 5. Work area: Keep the floor around the machine clean and free of scrap material, sawdust, oil or grease to minimize the danger of tripping or slipping. Be sure the table is free of all scrap, foreign material and tools before starting a cut. Powermatic recommends the use of anti-skid floor strips on the floor area where the operator normally stands and that each machine's work area be marked off. Make certain the work area is well lighted and that a proper exhaust system is used to minimize dust. Provide for adequate work space around the machine.
- Guards: Keep the machine guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards on completion of the maintenance task before using the planer. Do not operate the machine with the guards off.
- Do not over reach: Maintain a balanced stance and keep your body under control at all times. Do not over reach.
- 8. Maintain tools in top condition: Keep tools sharp and clean for safe and best performance. Dull tools increase noise levels and can cause kickbacks and glazed surfaces. Broken tools or tools that are not securely locked in the cutterhead can be thrown out of the planer causing severe or fatal injury as well as severe damage to the machine. Check the condition and adjustment of the tools before making any cuts. Follow the sharpening instructions on knife grinding and jointing, installing and adjustments. Caution: Do not use knives that have been reground to less than 5/8" (16 mm) height on standard cutterheads or 1/2" (13 mm) height on quiet cutterheads.
- Operator position: Stand to the left side out of line with the table and make sure no one else is standing in line with the table.
- 10. Hand safety: Keep hands outside the machine. Never reach under the guards to try to clear stock that stops feeding. Do not clear chips and sawdust with hands; use a brush. Note caution decal at rear of the machine. Do not have any part of the hands under that part of the board that is over the table when starting a cut; the infeed roll will engage the board and force it down against the table causing a pinching action.
- Cutterhead rotation: Be sure cutterhead rotates under power in a counterclockwise direction when viewed from the main drive motor side.
- 12. Machine adjustments: Make all machine adjustments with power off except feed rate.
- 13. Machine capacity: Do not make any cuts requiring more power than is available on the machine. Each machine has a caution decal on the front panel indicating the maximum depth of cut and the maximum difference in board thickness allowed when multiple board surfacing when it is equipped to do that operation. Do not attempt to feed two boards side by side (multiple board surfacing) on any machine not equipped with a sectionalized infeed roll and chipbreaker.
- 14. Material condition: Do not plane boards with loose knots or with nails or any foreign material on its surface. Knife impact on these objects can cause the knives to be pulled out and cause them to shatter against the chipbreaker or pressure bar. Twisted, warped, or in wind stock should first be jointed on one surface before attempting to plane a parallel surface on the planer. Serious stock flaws cannot be removed by use of a planer alone.
- 15. Stacked boards: Do not feed stacked boards through a planer; a kickback can occur causing severe or fat injury.
- 16. Shor tock: Do not attempt to plane boards shorter than 12" (305 mm) in length without butting a board of equal thickness behind it to help it through the planer. Be sure the last board of a butted sequence is 12" (305 mm) long or longer.
- 17. Stock stops feeding: If the board being planed stops feeding, disengage or turn the feed off and turn the power off. Wait until the cutterhead comes to a complete stop before lowering the table to remove the board. Never lower the table with the power on and the stock still in the machine. A kickback can accour which could cause a severe or fatal injury.

- 18. Avoid accidental starting: Make certain the motor switch is in the off position before connecting power to the planer.
- Careless acts: Give the work you are doing your undivided attention. Looking around, carrying on a conversation, and "horseplay" are careless acts that can result in serious injury.
- 20. Job completion: If the operator leaves the machine area for any reason, the planer should be turned "off" and the cutterhead should come to a complete stop before his departure. In addition, if the operation is complete, he should clean the planer and the work area. Never clean the planer with power "on" and never use the hands to clear sawdust and debris; use a brush.
- 21. Disconnect machine: Before performing any service or maintenance and when changing blades.
- 22. Replacement parts: Use only Powermatic or factory authorized replacement parts and accessories; otherwise the planer warranty and guarantee will be null and void.
- 23. Misuse: Do not use this Powermatic planer for other than its intended use. If used for other purposes, Powermatic disclaims any real or implied warranty and holds itself harmless for any injury which may result from that use.

Listed below is a table of horsepower and cutterhead r.p.m. for Powermatic planers. Do not equip your planer with motor of higher horsepower nor run the cutterhead in excess of the r.p.m. indicated in the table. Doing so voids the warranty and Powermatic holds itself harmless from any injury that may result.

PLANER SIZE 24" (61.0 cm)

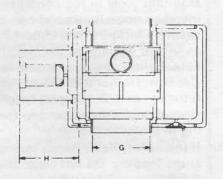
Max. Horsepower

Max. Cutterhead R.P.M.

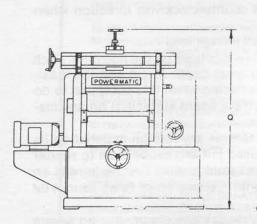
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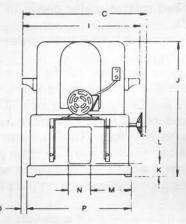
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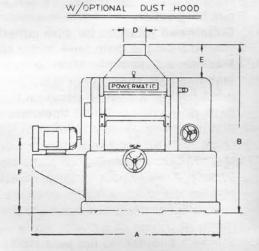
POWERMATIC MODEL 225 PLANER











	A	В	C	D	Е	F	G	Н		J	K	L	M	N	0	Р	Q
MODEL 225	68 3/4"	55 1/4"	50"	8	11"	22"	24 1/8"	22 3/4"	48 1/2"	44 1/4"	4	10	16 5/8"	6	4 5/8"	39 1/4"	57"

TIPLE IX	A	В	С	D	Ε	F	G	н	1	J	К	L	М	N	0	Р	0
MODEL 225	174 6cm	140 3cm	127 0cm	20 3cm	27 9cm	55 9cm	61 3cm	57 8cm	123 2cm	112 4cm	10 2cm	25 4cm	42 2cm	15 2cm	11 7cm	100 0cm	144.8cm

POWERMATIC MODEL 225 PLANER

SPECIFICATIONS:	MODE	L 225
	2	4
ENGLISH	Std.	"Q" Model
TABLE AREA	24x48	24x48
CUTTERHEAD DIAMETER	41/8	41/8
CUTTING CIRCLE	43/8	43/8
DIR. DR. CUTTERHEAD S.F.M.	4120	4120
BELTED DRIVE CUTTERHEAD S.F.M.	5500	3600
KNIFE SIZE	5/32 x 1 1/4 x 2 4 1/4	3/16X1X21/4
FEED ROLL DIAMETER	4	4
BED ROLL DIAMETER	4	4
FEED RANGE F.P.M.	20 - 100	20 - 100
MAX. DEPTH OF CUT, SINGLE BOARD	1/2	1/2
STOCK RANGE THICKNESS	1/8 - 8	1/8 - 8
WIDEST PLANEABLE STOCK	24	24
SHORTEST PLANEABLE BUTTED STOCK	9	9
SHORTEST PLANEABLE STOCK NOT BUTTED	13	13
MOTOR H.P. RECOMMENDED:		
LIGHT WORK	5 & 71/2	5 & 71/2
HEAVY WORK	10 & 15	10 & 15
APPROXIMATE WT. DOMESTIC	2005	
(CRATED WITH MOTOR)	2885	2885

LINEAR DIMENSIONS IN INCHES. S.F.M. IS SURFACE FEET PER MINUTE.

F.P.M. IS FEET PER MINUTE. WT. IS IN POUNDS.

THE ABOVE SPECIFICATIONS, DIMENSIONS AND DESIGN CHARACTERISTICS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

SPECIFICATIONS:	MODE	L 225
	61	.0
METRIC	Std.	"Q" Model
TABLE AREA	61.0×122.0	61.0×122.0
CUTTERHEAD DIAMETER	10.5	10.5
CUTTING CIRCLE	11.1	11.1
DIR DR CUTTERHEAD S.M.M.	1255.8	1255.8
BELTED DRIVE CUTTERHEAD S M M	1676.4	1097.3
KNIFE SIZE	.4×3.2×61.6	.5×2.5×5.7
FEED ROLL DIAMETER	10.2	10.2
BED ROLL DIAMETER	10.2	10.2
FEED RANGE M P M	6.1-30.4	6.1-30.4
MAX DEPTH OF CUT. SINGLE BOARD	1.3	1.3
STOCK RANGE THICKNESS	.3-20.3	.3-20.3
WIDEST PLANEABLE STOCK	61.0	61.0
SHORTEST PLANEABLE BUTTED STOCK	22.9	22.9
SHORTEST PLANEABLE STOCK NOT BUTTED	33.0	33.0
MOTOR H.P. RECOMMENDED		
LIGHT WORK	3.7 & 5.6 kw	3.7 & 5.6 kw
HEAVY WORK	7.5 & 11.2 kw	7.5 & 11.2 kv
APPROXIMATE WT DOMESTIC (CRATED WITH MOTOR)	1308.6	1308.6

LINEAR DIMENSIONS IN CENTIMETERS S.M.M. IS SURFACE METERS PER MINUTE

M.P.M. IS METERS PER MINUTE WT. IS IN KILOGRAMS

THE ABOVE SPECIFICATIONS, DIMENSIONS AND DESIGN CHARACTERISTICS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MACHINE INSTALLATION, ADJUSTMENTS & MAINTENANCE

Receiving:

Uncrate machine and check for shipping damage. Report any damage to the carrier and your distributor immediately. If accessories were ordered with the machine, these will be in a separate container and should be checked for completeness and damage. Notify the carrier and your distributor immediately if any items are missing or damaged.

Clean protective coating from all areas and lubricate parts as indicated in this manual.

Installation:

Mount machine on a solid foundation, preferably a concrete floor, and lag machine to the floor through the holes provided in the base (see page 4 for mounting dimensions). The machine area should be clean, dry, well ventilated, and well lighted. Since planers can create noise problems, the site selection should be one which minimizes reverberant sound from walls, ceilings and other equipment. Electricals should be installed so that they are protected from damage and exposure. Be sure to properly ground the machine frame.

Exhaust System:

When an exhaust system is used, be sure it is of sufficient size to provide an exhaust volume of 1100 cubic feet/min. (31.2 cubic meter/min.). If an exhaust system is not used, the user is cautioned against the health hazard and the limitations in the OSHA regulations for employee or student exposure to dust particles.

Powermatic recommends that an exhaust system be used with a planer.

Inspection:

Before putting power on the machine, check that all screws are tight, that all mechanical functions work freely and that the cutterhead turns freely without knife contact with the chipbreaker or pressure bar. Periodic or regular inspections are required to insure that the machine is in proper adjustment, that all screws are tight, that belts are in good condition, that dust has not accumulated in the electrical enclosures, and that there are no loose or worn electrical connections.

Before Operating:

Check the motor and switch wiring diagram for proper voltage connections before applying power to the machine (see page 17 for wiring diagrams). Turn the main drive motor and feed motor [on 20" (508mm) and 24" (610mm) models only] on momentarily to check for proper direction of rotation. Correct as required, cutterhead should rotate counterclockwise when viewed from the sheave or motor side. The infeed roll should turn clockwise when viewed from the motor side of the planer.

Run the machine without cutting for a short period of time to check that all powered functions are operating properly.

Be sure to read and understand the operating instruction manual before using the planer.

Lubrication:

The cutterhead, infeed roll and outfeed roll are mounted on sealed ball bearings and require no lubrication. The following lubrication chart indicates the lubrication points, frequency, and recommended lubricants.

MODEL 225

FREQUENCY	LUBRICANT
Weekly	Fiske Lubriplate #630AA.
Daily	SAE 10
Weekly	SAE 10
Weekly	SAE 10
Weekly	SAE 10
Weekly	SAE 10
Weekly	SAE 10
Weekly	SAE 10
	Daily Weekly Weekly Weekly Weekly Weekly

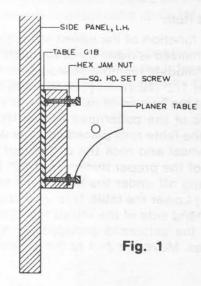
Table elevating miter gears	Weekly	Fiske Lubriplate #630AA.	
Table elevating screws	Weekly	Fiske Lubriplate #630AA.	
Knife grinder screw brackets	Prior to use	Fiske Lubriplate #630AA.	
Knife grinder screws	Prior to use	Fiske Lubriplate #630AA.	
Knife grinder ways	Prior to use	Fiske Lubriplate #630AA	
Fd. drive gears	Monthly	Fiske Lubriplate #630AA.	
Table roll housings	Monthly	Fiske Lubriplate #630AA.	

MACHINE ADJUSTMENTS

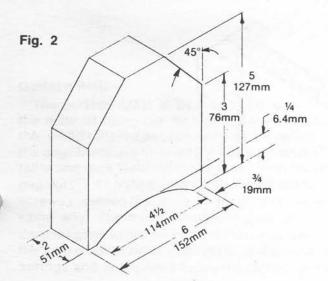
Planer Table:

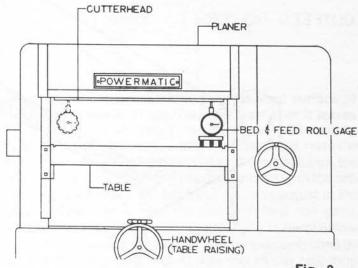
The planer table is raised and lowered by twin ACME screws supported on thrust bearings and is guided by machine surfaces on the side panels. The fit-up to prevent the table from rocking is controlled by two gibs in front. These gibs should be adjusted individually using the gib screws provided (fig. 1) so that the ways are lightly contacting on all four surfaces. The gibs should be tight enough to prevent rocking or movement of the table when the planer is in operation.

To do accurate planing, the table must be parallel with the cutterhead. Lack of parallelism results in a taper over the width of a board. Check with straddle-type knife gage to insure knives have the same protrusion from the cutterhead arc [approximately .125 (3.2 mm)] end to end and that each knife is the same. Maximum deviation allowed for good planing is .001 (.025 mm). If deviation exceeds .001 (.025 mm), see section on installing cutterhead knives or section on jointing and grinding knives before leveling the table.



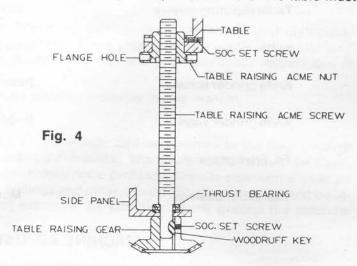
Place a $6'' \times 5''$ (152mm \times 127mm) gage block (fig. 2) and shop scale to be used as a feeler gage or bed and table roll gage at the extreme right hand side of the table, rotating head so the knives clear the gage surface. Raise the table with the table raising handwheel until the scale on top of the block just touches the cutterhead. If using the indicator gage, establish the low point of the cutterhead arc by moving the gage front to back for the maximum indicator reading and then zero the dial at this point (fig. 3). Move the block or indicator gage to the extreme left side of the table. Using the indicator gage or block, find the low point of the cutterhead





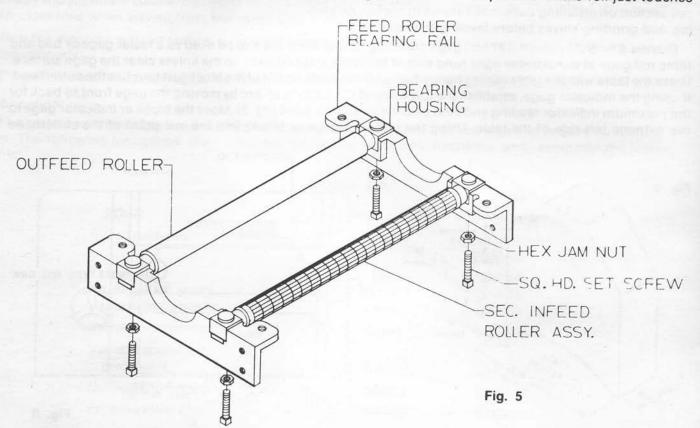
arc without moving the table height. Note whether the reading is less than or greater than the right side. If greater on the left side, the right side of the table must be raised; if less, the left side of the table must be

raised. With the indicator or gage block under whichever side that must be raised, loosen the setscrew locking the ACME threaded flange nut (fig. 4) from rotation in the table on the side to be raised. Rotate the nut using a rod in the flange holes and raise that side of the table until the indicator reading or drag feel on the gage block is the same on both sides. Relock the flange nut setscrew in the table. Another method that can be used if the table is free is to loosen the setscrew on the high side of the table and then rotating the table handwheel clockwise raising the opposite side until it is level. Relock the flange nut setscrew in the table.



Infeed Roll:

The function of the infeed roll is to feed the material into the machine. It is a corrugated roll and when sectionalized is made up of two inch (51mm) wide sections with 1/4" (6.4mm) movement in each section to accommodate multiple board surfacing. In addition, the whole assembly is spring loaded to accommodate the full 1/2" (12.7mm) [1/4" (6.4mm) on model 100] depth of cut. To provide proper drive, it should be set so that the bottom of its arc is 1/16" (1.6mm) on sectionalized types and 1/32" (.8mm) on solid types below the arc of the cutterhead knives. Using gage block or a short piece of finished 2×4 lumber notched to clear the table rolls placed on edge under one knife of the cutterhead, raise the table with the table raising handwheel and rock the cutterhead back and forth until it just touches the gage block or 2×4 . [A shop scale of the proper thickness, 1/32" (.8mm) or 1/16" (1.6mm) can be used on top of the gage block when touching off under the knives and then removed when setting the infeed roll to provide the correct step down.] Lower the table 1/16" (1.6mm) or 1/32" (.8mm) and move the 2×4 or gage block under the extreme right hand side of the infeed roll. If it will not go in the roll must be raised. If clearing, it must be lowered. Using the setscrews provided (fig. 5) unlock the setscrews and adjust as required so that the roll just touches. Move the 2×4 to the extreme left side and adjust that side as required until the roll just touches



the gage. Recheck the right side and then lock the setscrew with the jam nuts provided. The most accurate

method of setting the infeed roll is with the bed and feed roll gage. Find the low point of the knife arc to the end of the gage then set the infeed roll to .031 with solid infeed roll or .062 for sectionalized infeed rolls below the zero point. It is important that the setting on both sides of this feed roll be close to the same height to help avoid skewing of the material as it is fed through the machine. Infeed roll pressure is controlled by springs and is adjusted by use of screws located on top of the side panels (fig. 6) Pressure should be slightly higher on the drive side to help avoid skewing of board as it feeds through, the adjusting screw will be approximately flush with the bottom of the countersink on the top side panels when properly adjusted.

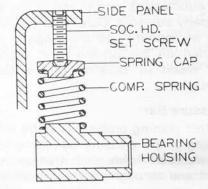


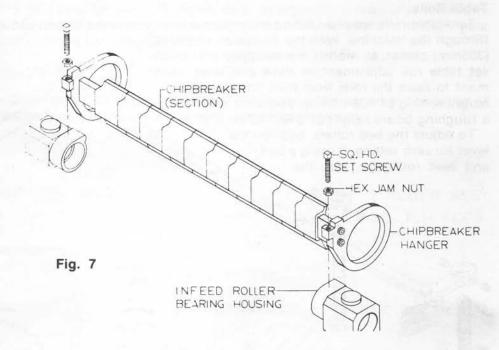
Fig. 6

Chip Breaker:

The chip breaker can be either a solid or sectionalized type. The sectionalized chip breaker is constructed of 2" (50.8mm) wide spring-loaded sections mounted on a bar which swings concentric with the cutterhead. Each section has approximately 1/4" (6.4mm) independent yield. The functions of the chip breaker are to help avoid splintering out of the wood, to break chips into small pieces, to help avoid board bounce on thinner boards, to direct the flow of chips out of the machine, and to permit multiple board surfacing up to 1/4" (6.4 mm) difference in thickness on the sectionalized type.

The chip breaker in its free position should be 1/32'' (.8mm) on both solid and sectionalized types below the cutting arc of the knives: the same as the infeed roll. Using the same method as indicated for the infeed roll, remove the cover over the top section of the planer, adjust the chip breaker free position using a 2×4 gage block and shop scale of the proper thickness and adjusting screws in the pivot arm at each

end. It is important that each end be close to the same height to help avoid skewing of the material as it is fed through the machine. Since the chip breaker adjusting screws (fig. 7) contact the bearing housings for the inadjustment roll, its should be made after the infeed roll and if the infeed roll setting is altered, the chip breaker must be readjusted. Caution: A chip breaker set too low may prevent stock from feeding into the machine.



Outfeed Roll:

The outfeed roll is smooth and of one-piece construction to help avoid marring the finished surface of the material being cut. Its function is to continue to feed the material through the machine after it leaves the infeed roll. The correct free position setting is 1/32''(.8mm) below the arc of the cutterhead knives. Using the gage block or a finished 2×4 on edge with a 1/32''(.8mm) shop scale on top under the cutterhead, raise the table and rock the cutterhead to establish the low point of the knife arc. Remove the scale and position the gage or $C \times 4$ under the right side of the outfeed roll. Raise or lower its right hand bearing support with the setscrews; ovided (fig. 8) to a light drag fit. Move the gage or 2×4 under the left hand end and adjust in the same way. The most accurate method of setting the outfeed roll is with the bed and feed roll gage. Zero the gage to the low point of the cutterhead arc and set each end of the outfeed roll to .031 (.787mm) below the zero on both sides. Lock the setscrews with the jam nuts provided. Out feed roll pressure is controlled by springs and is adjusted by use of screws located on top of side panels (fig. 8). The top of the adjusting

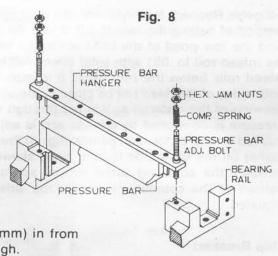
screw will be approximately flush with the bottom of the countersink on the top of the side panels when properly adjusted. Care must be observed in making this adjustment so that slightly more pressure is exerted on the driving side. Unbalanced pressure can result in skewing of the board as it feeds through.

Pressure Bar:

Most planing problems can be related to improper setting of the pressure bar. Its functions are to hold the material down after it passes under the cutterhead and throughout the remainder of the cut. Its basic setting is to be in line with the arc of the cutterhead knives. If it is too high, a shallow clip will occur 6" (152mm) in from

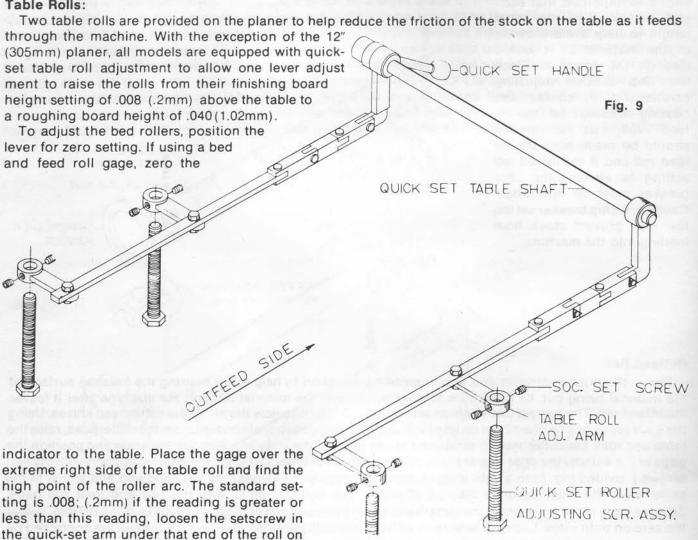
each end of the board. If it is too low, stock will not feed through.

the underside of the table (Fig. 9). Adjust the hex head jackscrew to



With a bed and feed roll gage or a gage block and a 1/32" (.81mm) thick 6" (152mm) scale as a feeler placed under the cutterhead, raise the table with its elevating handwheel to determine the low point of the arc of a cutterhead knife. Move the gage or gage block and scale under the low point of the extreme right hand side of the table and adjust that end of the pressure bar with the jackscrews provided to be in line with the low point of the knife arc (fig. 11). Move the gage or gage block and scale to the extreme left hand side and adjust that side to be in line with the low point of the knife arc. Recheck the right side; check the full width of the pressure bar. If the center is slightly low, adjust both sides the same amount to bring the low point into line. Using the bed and feed roll gage set the full length of the pressure bar to be .000 -.001(.02mm) above the arc of the cutterhead. This initial setup is a starting point and final adjustment may have to be made during a test cut.

Table Rolls:



position the roll to the .008 (.2mm) setting. Repeat the process on the left side and then recheck the right side. Relock the setscrews in the arms. If a gage is not available, loosen the setscrews in all four arms and lower the roll below table level. Lay a straight edge across the slot on one side and raise the roll until it just touches the straight edge. Repeat the process on the opposite side. Since table roll jackscrews on Powermatic planers have 16 threads per inch, rotate the screws on each end 1/8 turn for a .008 (.2mm) setting. Relock arm setscrews. It is important that both ends of the bed rolls be the same height to help prevent skewing of the board as it feeds through the machine.

Test Cutting:

Using a piece of semi-finished stock, set up for a 1/16"(1.58mm)deep cut with the quick-set adjustment at zero. Start the machine, and standing to the left-hand side begin feeding the stock into the machine. (Fig. 10 shows the basic planer configuration.)

Caution: Never stand directly behind stock or allow anyone else to do so and do not bend down to see how the stock is feeding. Should a kickback occur, a serious or fatal injury could result.

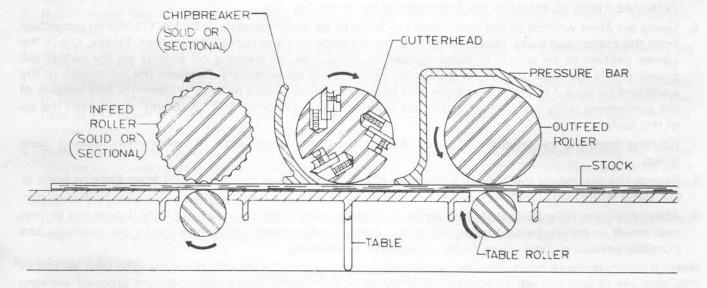
The infeed roll should take the material and force it under the chip breaker and cutterhead. If the material feeds through effortlessly, examine the finished cut carefully for imperfections. Learning to read a board for imperfections will save hours in adjusting a planer to operate properly. (See Trouble Shooting chart on page for imperfections not related to the pressure bar which can develop due to misadjustment and knife wear.)

If "clip" marks occur 6"(152mm) in from each end of the board, the pressure bar is too high. Turn both right and left hand adjusting screws the same amount, 1/4 turn clockwise or less, and take another 1/16" (1.58mm) deep cut. Re-examine the board. Continue the operate-adjust procedure until the clip marks disappear. Should the board fail to feed through, back off slightly on both adjusting screws until feeding is smooth and the imperfections do not reappear. Lock the pressure bar adjusting screws with the jam nuts provided. Caution: Do not adjust pressure bar with cutterhead running.

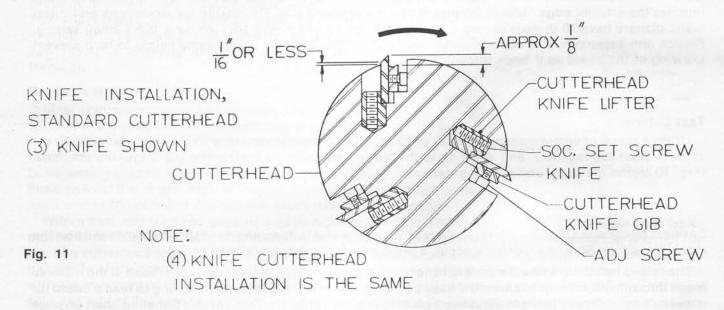
Note: Adjustment of the pressure bar will be required whenever knives are resharpened and because of wear which will occur on the cutting edge of the knives, causing feed to be restricted.

Fig. 10

CUTTING & ROLLER ASSY. (OPERATORS R.H. SIDE)



Feed restriction can also occur due to pitch buildup on the table. Be sure the table surface is clean and dusting the surface with talc occasionally will aid in smoother feeding and help to prevent pitch buildup.



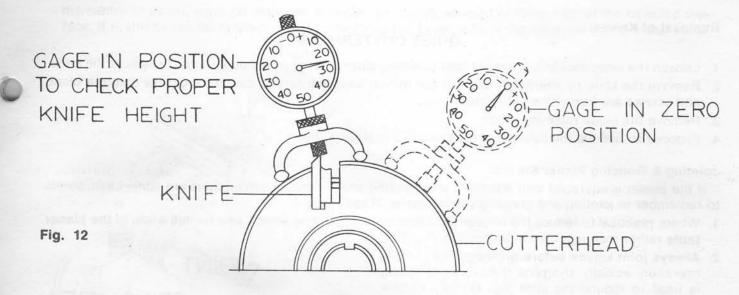
Knife Installation:

STANDARD CUTTERHEAD

Knife installation on a planer can be a difficult and exacting process. If the knives are not to be jointed and ground, end-to-end and knife-to-knife relationship must be held within .001 (.03mm) for accurate and smooth planing. To help avoid cutterhead distortion in changing out a set of knives, remove and replace the knife in one slot before changing the next knife.

- 1. Clean all dust, chips, pitch and accumulated foreign matter from a cutterhead slot and off of its gib.
- 2. Working with one slot, drop in the knife jacks in their seats with the notched surface facing the slot.
- 3. With the knife and gib against each other and the beveled surface of the knife on the knife jack side and the concave shaped surface of the gib up, insert into the slot. The back edge of the knife bevel should be slightly below the outside diameter of the cutterhead. Lightly tighten the two outside and center gib screws.
- 4. Take the cutterhead knife gage (Fig. 12) and zero it on the cutterhead outside diameter. As a reminder, different size planers have different cutterhead diameters so that the zero point should be checked before using the gage.
- 5. Working from the bevel side and close to an outside jackscrew, slide the indicator on the radius of the cutterhead body to establish the high point of the knife (Fig. 12).
- 6. Using an Allen wrench in the jack, raise the knife to be approximately 1/8"(.125") (3.18mm) projection from the cutterhead body. Move the gage to the opposite end and repeat the process. Finally, check the center section to be sure it is within tolerance. If it is low, try backing off slightly on the center gib screw. If it is too high, jointing and possibly grinding will be necessary. Recheck the full length of the knife and be sure it is the same height. The heel of the bevel should be 1/16"(1.59mm)or less outside of the cutterhead body and the top of the gib should be approximately 1/8" (3.18mm) down from the tip of the knife.
- 7. Starting from the center outward, snug down all gib screws and then repeat process locking them down.
- 8. Repeat the preceding method on successive knives making sure that the height from knife to knife is the same within .001 (.03mm).
- After all knives have been installed, recheck all gib screws to be sure they are tight. Loose gib screws can result in knives being thrown out of the cutterhead causing severe damage to the machine and possible serious or fatal injury to the operator or bystanders.

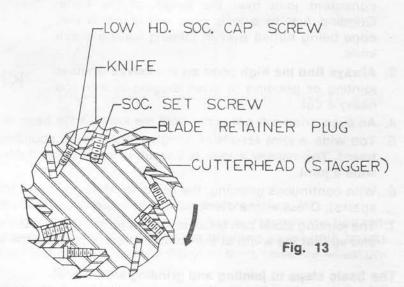
Note: If all knives have been removed, a new set must be installed without locking the gibs until all knives and gibs are in and the gib screws lightly snugged down. The locking process should proceed working from the center out on each knife and after locking all gib screws once, repeat the same sequence until all screws are equally tight. Locking one knife in without the others in position can cause cutterhead distortion.



QUIET CUTTERHEAD

The following is a list of steps to insure the proper installation of the cutterhead knives. If the knives are not to be jointed and ground, knife-to-knife height setting should be within .001 (.03mm) to insure smooth and accurate planing.

- Clean slots, holes and retainer plugs to be free of sawdust, chips, pitch and accumulated foreign material.
- Adjust half-dog setscrews in blade retainer plugs to be flush with the full round end.
- Working with one slot and one blade at a time, insert blade retaining plugs into the cutterhead with the round end down and the flat facing the slot.



- 4. Insert a blade into the cutterhead slot with the blade adjusting screws held in the notches of the blade.
- 5. Screw in the blade adjusting screws clockwise alternating between screws until the tip of the blade is slightly higher than 1/8"(3.175mm) from the body of the cutter. A shop scale can be used for this rough setting.
- 6. Raise blade retainer plugs until they lightly contact the blade by turning the center setscrews clockwise.
- 7. Zero the cutterhead gage with the body of the cutterhead. **Note:** Because of the different diameters on different sized planers, the gage zero should be checked before it is used.
- 8. Using the cutterhead gage centered over the tip of the blade, rotate blade adjusting screws clockwise to lower the blade tip to be .002(.05mm) less than 1/8"(3.18mm) over the full length of the blade. The heel of the bevel of the blade should be roughly 1/16"(1.59mm) outside the cutterhead diameter and on the opposite side from the retaining plugs.
- 9. With the gage still centered over the blade tip. lock the retaining plugs in position turning the center screws clockwise. In locking, the blade should lift up approximately .002(.051mm). Recheck both ends of the blade; it should be within .001(.03mm) of the .125(3.175mm) position end-to-end if blades are not to be jointed and ground before use.
- 10. Repeat the above steps except #7 for each blade in the starting slot and then proceed in the same mant ar for the remaining slots. All blades should be the same height within .001 (.03mm).

Removal of Knives:

STANDARD CUTTERHEAD

- 1. Loosen all gib screws in one slot.
- 2. Remove both knife, gib, and blade jacks.
- 3. Repeat steps 1 & 2 for the remaining knives.

Removal of Knives:

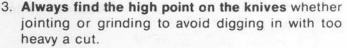
Q'JIET CUTTERHEAD

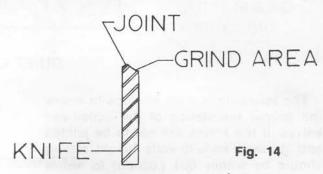
- 1. Loosen the setscrews in one set of blade retaining plugs and lightly tap downwards to release the knife.
- Remove the knife by alternately backing out its two adjusting screws counterclockwise until the blade and screws are free of the cutterhead.
- Remove the blade retaining plugs.
- 4. Proceed to remove the balance of the blades as in steps 1-3.

Jointing & Grinding Planer Kni 'es:

If the planer is equipped with a jointing and grinding attachment (optional), there are some basic points to remember in jointing and grinding planer knives. These are:

- Where practical to reduce the frequency of jointing and grinding knives, use the full width of the planer table rather than just the center section.
- 2. Always joint knives before grinding. The jointing operation actually sharpens the knives. Grinding is used to reduce the joint (fig. 14) to a narrow width to minimize pounding and to produce a consistent joint over the length of the knife. Grinding first to a wire edge will result in that edge being turned over in jointing leaving a dull knife.



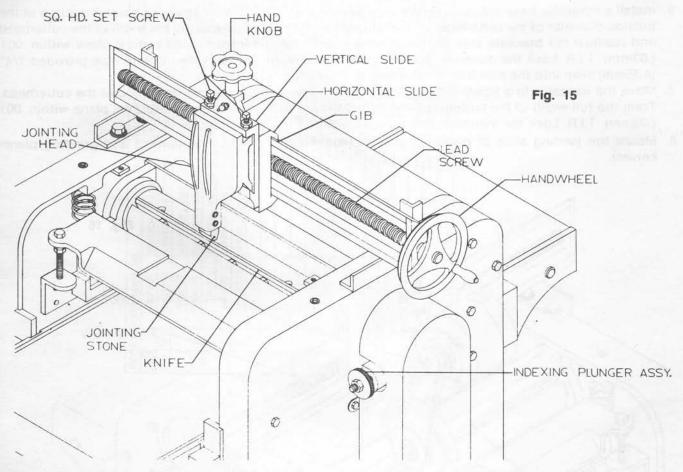


- 4. An even grind will not occur until the knives have been reground several times.
- 5. Too wide a joint results in a higher noise level, pounding, and a glazed appearance on the finished board. Too narrow a joint will result in rapid wear, dulling of the knives and the same results as too wide a joint.
- 6. With continuous grinding, the grinding wheel becomes loaded up or glazed and won't grind freely (no sparks). Dress with a diamond or star wheel dresser or other suitable dresser.
- 7. The jointing stone can become loaded up and glazed. Dress it on a stand type grinder. Double taper the end so that the width at the bottom where it contacts the knives is approximately 1/4" (6.35mm).

The basic steps to jointing and grinding knives are:

- 1. Remove the dust hood or top cover.
- 2. Install and center the jointing head in the dovetail ways of the vertical slide. Lock in position with the setscrews provided (Fig. 15). Be sure the jointing stone clears the knives by lowering the vertical slide with the top mounted hand knob until it touches one knife at the high point of its arc. Raise the slide with two full turns of the hand knob. Check the vertical slide making sure that the gib is snug so that screw pressure is required to move the slide downward. Also check the horizontal slide to be sure the gib is snug but movement is smooth and easy. Make sure the jointing stone's locked in its holder.
- 3. Turn the cutterhead drive motor on and stand to the right side of the machine out of line of the cutterhead. Slowly lower the jointing head while, at the same time, traversing back and forth over the full width of the cutterhead with the horizontal slide. At the first sign of sparks, stop lowering the jointing head and try traversing the full width of the cutterhead. If the stone appears to dig in too much, raise it until the high point of the knife set is found and make a complete traverse of the cutterhead.
- 4. Alternately lower the jointing head at the end of each traverse and traverse the full cutterhead width with jointing stone until a slight flat (shiny line) appears on all knives over their full length. The flat may be wider in some places than others and this is normal due to uneven wear. Turn the cutterhead motor off (Fig. 15).
- 5. Examine the knives carefully. If the joint is even and narrow (less than .010) (.25mm), the grinding operation will not be necessary. Resharpening by jointing only will be possible several times before regrinding is necessary on properly jointed and ground knives.
- 6. If grinding is required, remove the jointing head and install the grinding head in the vertical slide. Center in the slide in the dovetail surfaces and lock in position with the setscrews provided. Release the index pin and rotate the cutterhead by hand until it locks into the index ring. Lower the grinding wheel until it just touches the bevelled surface of the knife. Rotate the grinding wheel by hand to determine where

the center of its arc contacts the knife. It should be slightly forward of the center of the bevelled surface. If it strikes too far forward or too far back on the bevel, unlock the setscrew in the index collar



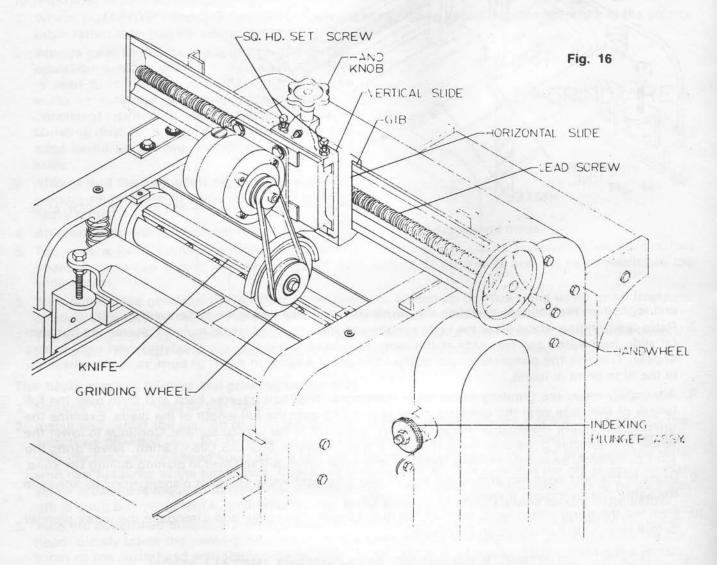
and reposition the collar to establish the correct location and relock the setscrew (Fig. 16).

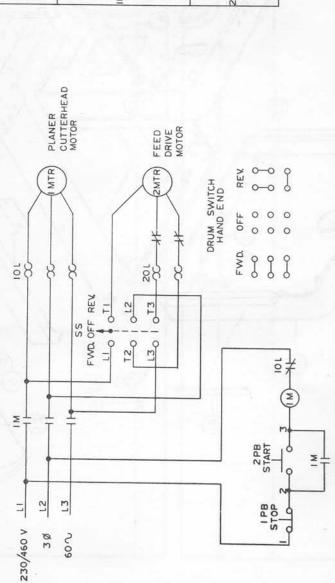
- 7. Raise the grinding wheel off of the knife surface and start the grind wheel motor. Traverse the horizontal slide backwards and forwards at the same time, slowly lowering the grinding wheel until sparks appear. Traverse the complete length of the knife and if it tends to dig in or burn, raise the wheel until the high point is found.
- 8. Alternately lower the grinding wheel small increments and then traverse back and forth over the full length of the knife until the grinding wheel is grinding over the full length of the blade. Examine the grind to see where the front of the grinding arc is relative to the jointed surface. Continue to lower the wheel and traverse grind until the joint width is approximately .003-.005 (.08 -.13mm). Never grind the joint completely away since it will produce a wire edge which will roll over in planing dulling the knife.
- 9. Index to the next knife slot and repeat steps 7 and 8 for each knife. On quiet planers, grind all knives in the same slot as though it were a full width knife.
- Remove the grind attachment, reinstall the dust hood or top cover, and disengage the index plunger before turning the machine on for planing.

JOINTING & GRINDING ATTACHMENT INSTALLATION INSTRUCTIONS

- Unbox the attachment and check for completeness. Report any shipping damage to the shipper and your distributor immediately to insure prompt service for repair or replacement of the damaged parts.
- 2. Remove the top cover or dust hood from the planer.
- Mount the rail mounting brackets to the side panel snugging the mounting screws down but not lockin them. Install the rail and slide assembly on the brackets and snug the mounting screws down.
- 4. Check a see if the gib on the horizontal slide provides a snug fit but allows free movement. Adjust gib if required.
- 5. Check the gib on the vertical slide. It should be tight enough so that the slide must be moved with hand knob pressure in both directions.

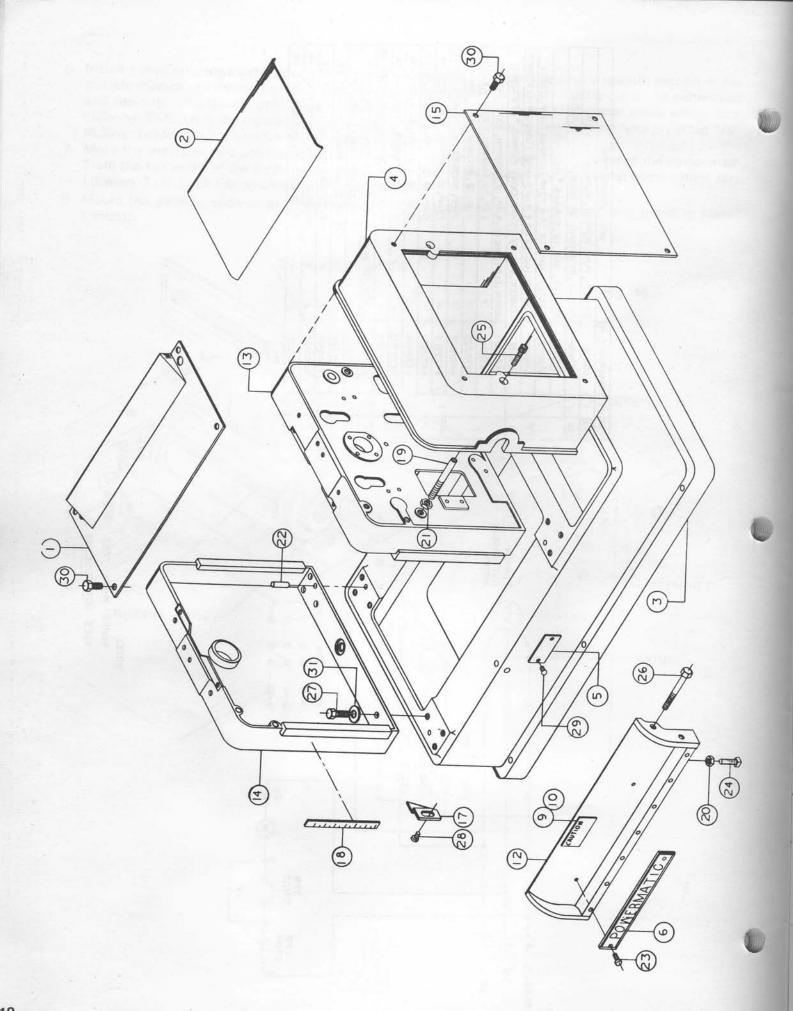
- 6. Install a magnetic base indicator on the vertical slide with the indicator against a smooth section of the outside diameter of the cutterhead on the horizontal centerline. Traverse the full width of the cutterhead and readjust rail brackets until the rail is parallel with the cutterhead in the vertical plane within .001 (.03mm) T.I.R. Lock the mounting screws down tight and drill through the locating hole provided 1/4" (6.35mm) deep into the side frame and dowel in position.
- 7. Move the indicator to a position to be on top and in line with the vertical centerline of the cutterhead. Tram the full width of the cutterhead and adjust the rail to be parallel in a horizontal plane within .001 (.03mm) T.I.R. Lock the mounting screws down tight.
- 8. Mount the jointing slide or grinding head as required (see page on jointing and grinding planer knives).





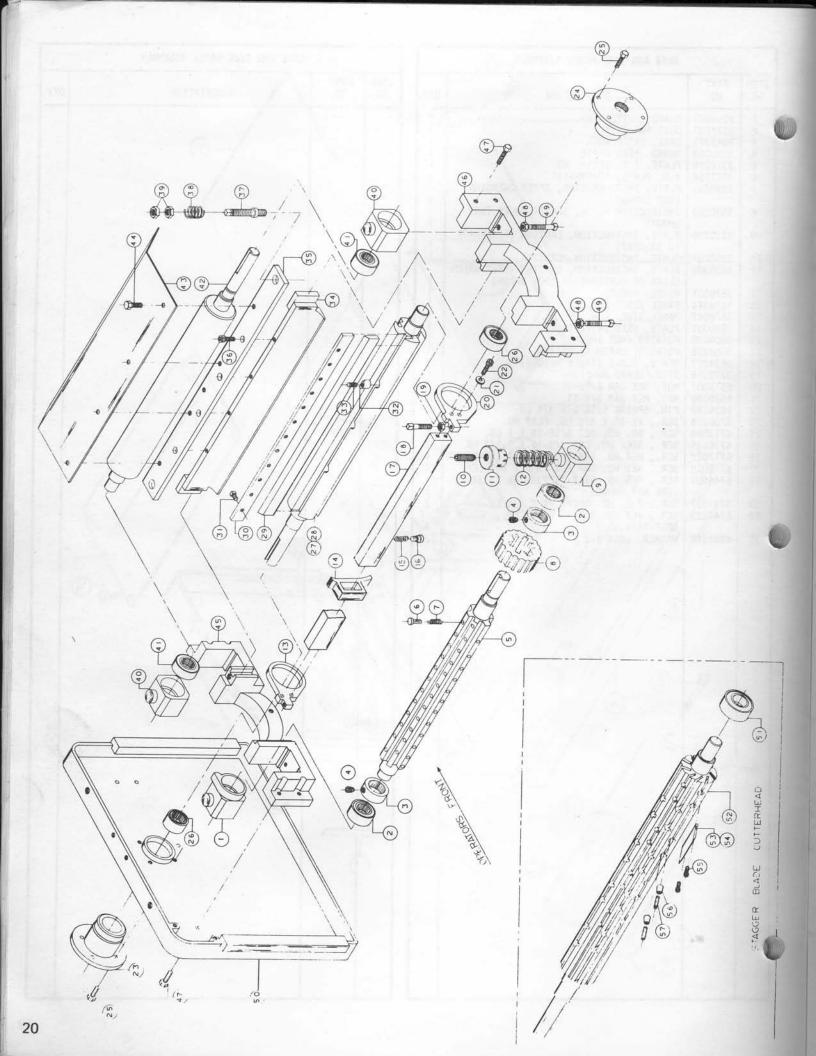
5 HP, 3Ø, 3600 RPM, 230/460V, 184 T FR. 72 HP, 30,3600 RPM, 230/460V, 213T FR 15HP, 30,3600 RPM, 230/460V, 254T FR. 10 HP, 3Ø, 3600 RPM, 230/460V, 215T FR. MOTOR, FD. DRIVE, 12 HP, 10, 1800 RPM, 115/230V, 145T FR. 12 HP, 3Ø,1800 RPM, 230/460V, 145T FR, 1HP, 3Ø , 1800 RPM ,230/460V ,143 T FR. 1HP, 1Ø ,1800 RPM ,115/230V ,143 T FR. STARTER, MAG, 30 (10 \$ 15 HP@ 460V) FURNAS # 14 EF 32BC7 72 HP, 30,3600 RPM, 200 V, 213T FR. 10 HP, 3Ø ,3600 RPM , 200V, 215T FR. 15 HP, 3Ø,3600 RPM, 200V,254T FR. MOTOR, CUTTERHEAD, 5 HP, 10, 3600RPM, 230V, 184T FR. 5 HP, 30,3600 RPM, 200 V, 184T FR. 1HP, 3Ø , 1800 RPM , 200V , 143T FR. STARTER, MAG, 30 (ISHP@ 230V) FURNAS * 14FB32BC71 12 HP, 3Ø, 1800 RPM, 200 V, 145T FR. STARTER, MAG, 30 (5 \$ 72 HP) FURNAS # 14 DF 32BC71 SWITCH , REVERSING ON DRUM, FURNAS # JT2145 SWITCH, PUSH BUTTON, FURNAS #50CA3DF STARTER, MAG., IØ, FURNAS # MEFIZBA7 MFG. DESCRIPTION " " 1 1 1 1 * 1 REF OTY POWERMATIC NO 6472328 6472320 6472319 6472512 6472702 6472507 6472604 6821094 6472606 6472703 6471322 6471026 6471027 6816107 6471301 6471304 6471003 6816178 6816113 6816114 IMTR ZMTR SS Σ

NOTE: SINGLE PHASE FEED DRIVE DOES NOT REVERSE



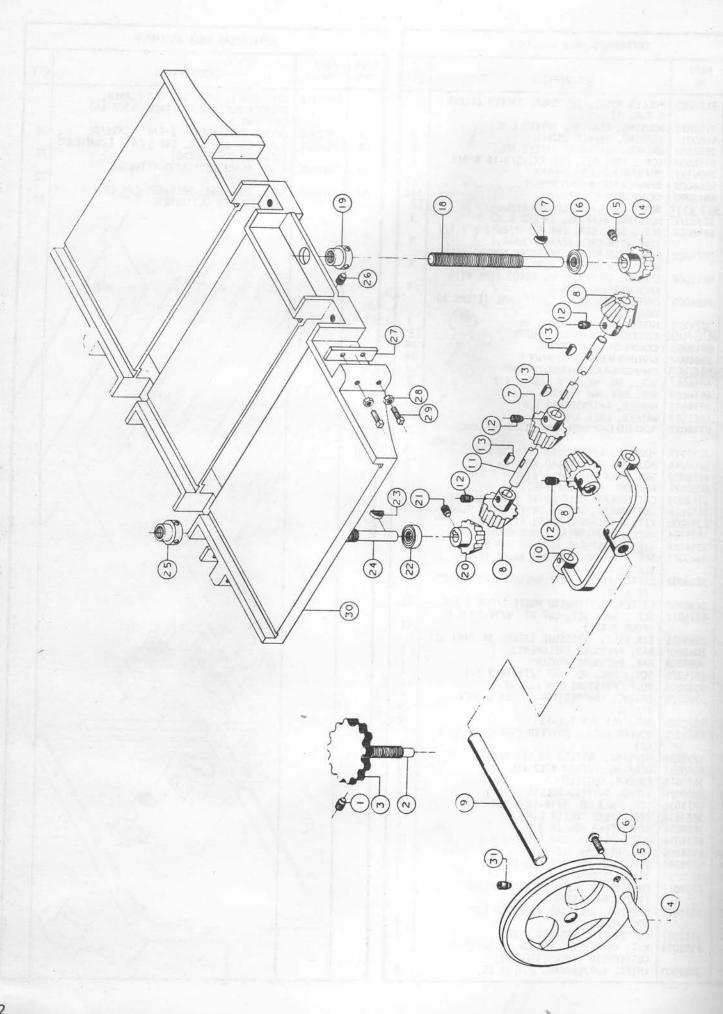
BASE AND SIDE PANEL ASSEMBLY							
ITEM NO.	PART NO.	DESCRIPTION	QTY				
20 21 22 23 24 25 26 27 28 29 30	2250051 2577001 3042071 3250063 3312228 3312254 3330283 3330286 3330287 3330305 3578031 3578044 3578047 3595032 3604008 3684223 3773015 6515007 6520008 6626048 6715088 6715088 6716015 6717022 6718010 6746001 6747001 6746023 6861100	GUARD, CUTTERHEAD DUST PAN ASSY. BASE, 24" PLANER GUARD, FEED DRIVE PLATE, I.D. SERIAL NO. I.D. PLATE, POWERMATIC PLATE, INST. CAUTION, SPEED CHANGING (NOT SHOWN) INSTRUCTION PLATE, SAFETY RULES (NOT SHOWN) PLATE, INSTRUCTION, CAUTION (ALTERNATE TO 3330287) PLATE, INSTRUCTION, CAUTION (KEEP HANDS CLEAR OF CUTTERHEAD) (NOT SHOWN) PANEL, FRONT PANEL SIDE, R.H. PANEL SIDE, R.H. PANEL SIDE, L.H. PLATE, FEED DRIVE GUARD POINTER (NOT SHOWN) POINTER, DEPTH ADJUSTING PLATE, SCALE (TABLE HEIGHT) STUD, GUARD MOUNTING NUT, HEX JAM 5/16-18 NUT, HEX JAM 5/16-18 NUT, HEX JAM 5/16-18 SCR., #6-32 X 3/8 LG. FLAT HD. SCR., SO. HD. SET 5/16-18 X 1 LG. SCR., SOC. HD. CAP 3/8-16 X 1 1/2 LG. SCR., HEX HD. CAP 7/16-14 X 4 1/2 LG. SCR., HEX HD. CAP 7/16-14 X 4 1/2 LG. SCR., PAN HD. SELF-TAPPING #6 X 1/4 LG. SCR., PAN HD. SELF-TAPPING #6 X 1/4 LG. SCR., HEX HD. CAP 1/2-13 X 1 1/2 LG. SCR., PAN HD. SELF-TAPPING #6 X 1/4 LG. SCR., HEX HD. ORIVE #4 X 1/4 LG. SCR., HEX HD. 1/4-20 X 5/8 LG., SELF-TAPPING WASHER. LOCK 1/2	111111111111111111111111111111111111111				

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TEM NO.	PART NO.	DESCRIPTION	QTY
	2673006	ROLLER ASSY., SECTIONAL INFEED (ITEMS	
		1 THRU 9)	
2	3298078	HOUSING, BEARING, INFEED L.H. BEARING, FAFNIR 207KLL	1 2
3	6060037 3837009	WASHER, SECTIONAL INFEED ROLL	2
4		SCR., SOC. SET, CUP PT. 3/8-16 X 3/8	2
5	3700117		1
6	3664002	SPRING RETAINER RIVET	144
	6813092		144
		SECTIONAL INFEED ROLLER	12
9	32980/7	HOUSING, BEARING, INFEED R.H.	1
10	6718050	SCR., SOC. SET, CUP PT. 1/2-13 X 1 1/2 (ONE WITH EACH BEARING HSNG.)	4
11	3078020	CAP, FEED ROLLER PRESSURE SPRING (ONE	1
Make 1	30,000	WITH EACH BEARING HSNG.)	4
12	6813066	SPRING, COMPRESSION, R2403 (ONE WITH	
	WITE SOUTH	EACH BEARING HSNG.)	4
	2086003	CHIPBREAKER ASSY., SECTIONAL (ITEMS 13	
10	2074000	THRU 22)	
13	3087002	HANGER, CHIPBREAKER L.H. SECTIONAL CHIPBREAKER	12
15	6813091		24
	3664002	SPRING RETAINER RIVET	24
	044063		1
18	6716087	SCR., SQ. HD. SET 3/8-16 X 2	2
19	6516009	NUT, HEX JAM 3/8-16	2
20	3274003	HANGER, CHIPBREAKER R.F.	1
21	6861307 6716027	WASHER, LOCK 3/8 SOC HD CAP SCR, 3/8-16 x 1, NYLOK	4
22	0/1002/	300 110 CAT SCN, 3/6-16 X 1, NY LOK	4
23	3298045	HOUSING, CUTTERHEAD BEARING L.H.	1
24	3298046	HOUSING, CUTTERHEAD BEARING R.H.	1
25	6718009	SCR., HEX HD. CAP 1/2-13 X 1 1/4	8 2
26	6060021	BEARING, BALL SKF #462309J	
27	3112004	CUTTERHEAD, BELT DRIVE (FOUR BLADE)	1
28	3112018 2393008	CUTTERHEAD, DIRECT DRIVE (FOUR BLADE) KIT, CUTTERHEAD KNIFE (ITEM 29)	1
29	3401004	KNIFE, CUTTERHEAD (FOUR BLADE)	4
30	3244029	GIB, CUTTERHEAD KNIFE (FOUR BLADE)	4
31	3689049	SCR., SQ. HD. 3/8-16, KNIFE (FOUR	
		BLADE)	48
	2438002	LIFTER ASSY., CUTTERHEAD KNIFE (ITEMS	
22	2420202	32 & 33)	122
32	3438202	LIFTER, CUTTERHEAD KNIFE (FOUR BLADE) SCR., SOC. SET, CUP PT. 5/16-18 X 1	12
33	0/1301/	(FOUR BLADE)	12
	2040016	BAR ASSY., PRESSURE (ITEMS 34 THRU 36)	1.2
34	2040001	BAR, PRESSURE (WELDMENT)	1
35	3044059	BAR, PRESSURE HANGER	1
36	6715025	SCR., SOC. HD. CAP 5/16-18 X 3/4	4
37	3058008	BOLT, PRESSURE BAR ADJUST	2
38	3755228	SPRING, COMPRESSION, DUDEK & BOCK #16138	2
39	6518008	NUT, HEX JAM 1/2-13	4
	2673015	ROLLER ASSY., OUTFEED (ITEMS 40 THRU	1
		42)	
40	3298024	HOUSING, OUTFEED ROLLER BEARING	2
41	6060037	BEARING, FAFNIR #207 KLL	2 2 1
42	3673018	ROLLER, OUTFEED	1
43	3250028	GUARD, OUTFEED ROLLER	1
44 45	6715035 3653014	SCR., HEX HD. 5/16-18 X 3/4 RAIL, FEED ROLLER L.H.	1
46	3653014	RAIL, FEED ROLLER R.H.	1
47	6716016	SCR., HEX HD. CAP 7/16-14 X 2	10
48	6516009	NUT, HEX JAM 3/8-16	4
49	6716087	SCR., SQ. HD. SET 3/8-16 X 2	4
50	3578047	PANEL, SIDE L.H.	1
	2109017	CUTTERHEAD ASSY., STAGGER BLADE	
E2	60600033	(ITEMS 51 & 52)	
51	6060021	BEARING, BALL SKF #462309J (ONE NOT SHOWN)	1 2
52	3112021	CUTTERHEAD, STAGGER BLADE	2
	2393014	KIT, KNIFE, 24" PLANER, STAGGER	1 '
		CUTTERHEAD (INCL. ITEM 53)	
53	3052003	KNIFE, CUTTERHEAD, 2 1/4" LG.	36

ITEM	PART		
NO.	NO.	DESCRIPTION	QTY
54 55 56 57	2393019 3052004 6 76404 3 3598046 6 7 14091	KIT. KNIFE, CARBIDE, 24" PLANER, STAGGER CUTTERHEAD (INCL. ITEM 54) (OPTIONAL) KNIFE, CUTTERHEAD, 2 1/4', CARBIDE SCR., LOW HD SOC. CAP-1/4" Lowhead (STAGGER CUTTERHEAD) PLUG, BLADE RETAINING (STAGGER CUTTERHEAD) SCR., SOC. SET, HALF DOG 1/4-20 X 5/8 (STAGGER CUTTERHEAD)	36 72 72 72



NO.	PART NO.	DESCRIPTION	QTY
1 2 3	2695025 6715016 3695033 3271008 2709014	SCR., LOCK ASSY., TABLE RAISING HAND- WHEEL (ITEMS 1 THRU 3) SCR., SOC. SET, CUP PT. 5/16-18 X 5/16 SCR., LOCK, TABLE RAISING HANDWHEEL SHAFT ASSY., TABLE RAISING (ITEMS 4	1 1 1
4 6 6 7 8 9 10 11 12 13 8 8 19 10 11 15 16 17 18 19 22 11 6 6 6 17 18 19 22 23 6 6 29 6 6 29 6 30 30 3	2271018 350020 3271038 6765010 3237027 3237026 3701003 3216002 3705003 5716003 5420002 2690021 3237039 5716003 5691012 3237039 5716003 5691012 3237039 5716003 5691012 529004 2690022 2237039 5716003 5716004 244024 5716004 244024 5716004	THRU 13) HANDWHEEL ASSY., TABLE RAISING SHAFT (ITEMS 4 THRU 6) HANDLE, HOLLOW #2 HANDWHEEL, 12" DIA. SCR., BUTTON HD. CAP 5/16-24 X 3/4 GEAR, MITER, TABLE RAISING SHAFT GEAR, MITER, TABLE RAISING HANDWHEEL SHAFT SHAFT, TABLE RAISING HANDWHEEL FORK, TABLE RAISING SHAFT, COUNTER SCR., SOC. SET, CUP PT. 3/8-16 X 3/8 KEY, WOODRUFF #608 SCR. ASSY., TABLE RAISING R.H. (ITEMS 14 THRU 19) GEAR, MITER, TABLE RAISING SCR., SOC. SET, CUP PT. 3/8-16 X 3/8 BEARING, THRUST NICE #613 KEY, WOODRUFF #810 SCR., TABLE RAISING R.H. NUT, TABLE RAISING R.H. SCR. ASSY., TABLE RAISING L.H. (ITEMS 20 THRU 25) GEAR, MITER, TABLE RAISING SCR., SOC. SET. CUP PT. 3/8-16 X 3/8 BEARING, THRUST NICE #613 KEY, WOODRUFF #810 SCR., TABLE RAISING L.H. NUT, TABLE RAISING L.H. NUT, TABLE RAISING L.H. NUT, TABLE RAISING L.H. SCR., SOC. SET. CUP PT. 3/8-16 X 1 GIB, TABLE ADJUST NUT, HEX 3/8-16 SCR., SQ. HD. SET 3/8-16 X 1 3/4 TABLE, 24" PLANER SCR., SOC. SET, CUP PT. 3/8-16 X 3/8	111111111111111111111111111111111111111

ITEM	PART		
NO.	NO.	DESCRIPTION	QTY
			M
	1.44		
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-	189		1
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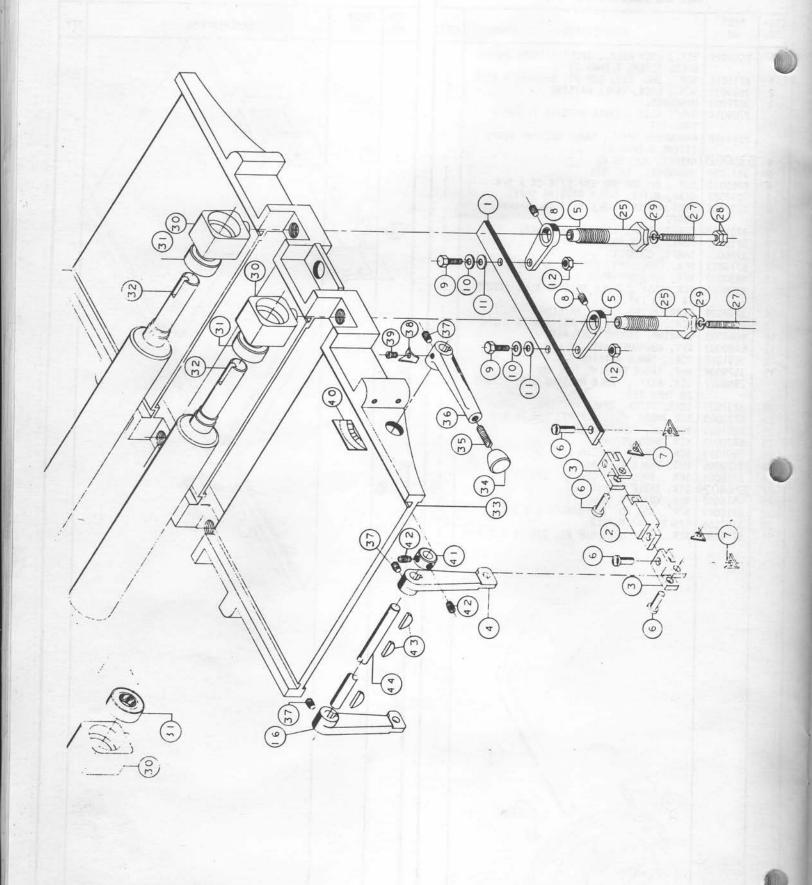
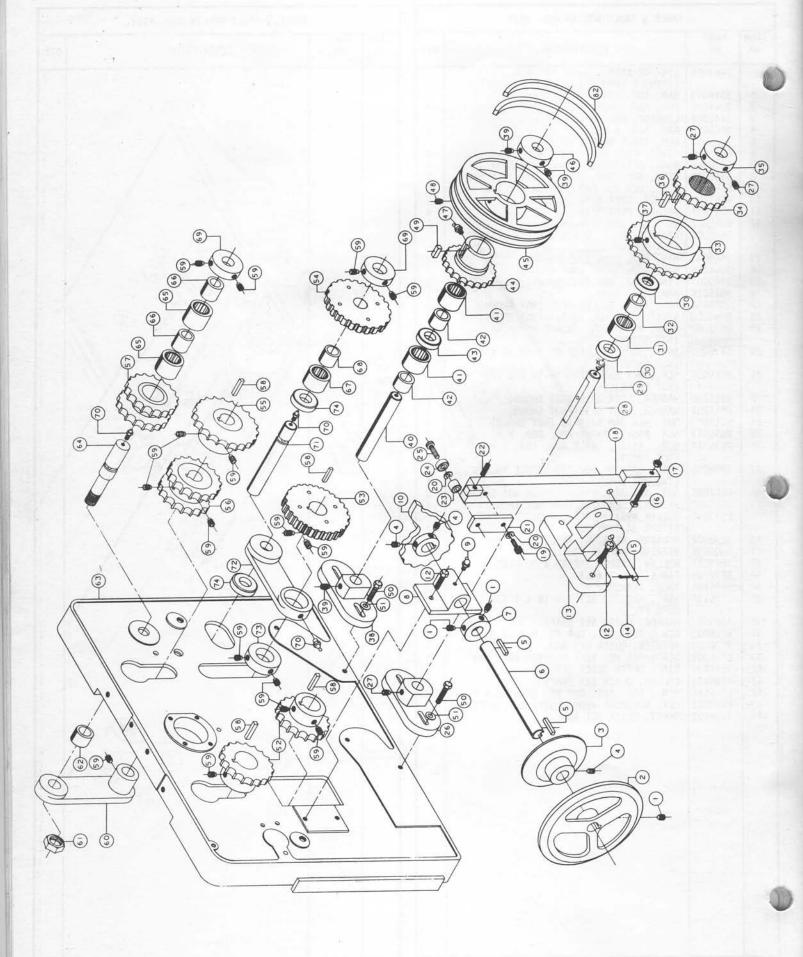
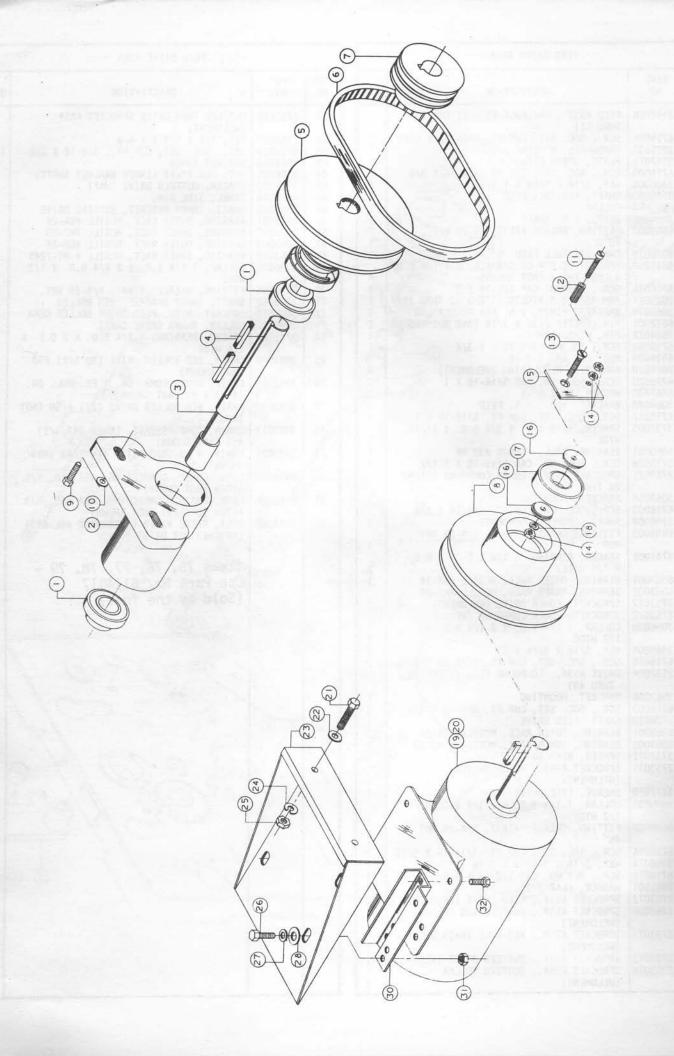


TABLE & TABLE ROLLER ADJ. ASSY.				TABLE & TABLE ROLLER ADJ. ASSY.			
EM 0.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QT
1	2445005	LINKAGE ASSY., QUICK SET R.H.	\Box			and the same of the same of the same	
,	3044033	(ITEMS 1 THRU 12) BAR, ADJ. LONG	1				
2	3044026	BAR, ADJ. SHORT	1				
3	3445001	LINKAGE, ADJ. BAR	2				
	3025015 3025014	ARM, ADJ. R.H. ARM, TABLE ROLLER ADJ.	1 2				
	6680010	RIVET, FLAT HD. 5/16 X 1	4				
1	6670082	RING, RETAINING, TRUARC #5305-31	4				
	6716003	SCR., SOC. SET, CUP PT. 3/8-16 X 3/8 SCR., HEX HD. CAP 5/16-18 X 1 1/2	2 2				
	6715037 6861200	WASHER, LOCK 5/16	2				
	6861201	WASHER, FLAT 5/16	4				
2	6515007	NUT, HEX JAM 5/16-18	2				
	2445009	LINKAGE ASSY., QUICK SET L.H. (ITEMS 13 THRU 24)					
3	3044033	BAR, ADJ. LONG (NOT SHOWN)	1				
1	3044026	BAR, ADJ. SHORT (NOT SHOWN)	1	THE REAL PROPERTY.			10
	3445001	LINK, ADJ. BAR (NOT SHOWN)	2	1			13
7	3025016 3025014	ARM, ADJ. L.H. ARM, TABLE ROLLER ADJ. (NOT SHOWN)	2	1000			12
3	6680010	RIVET FLAT HD. 5/16-1 (NOT SHOWN)	2			The second secon	
3	6670082	RING, RETAINING, TRUARC #5305-31		1955			
	6716002	(NOT SHOWN) SCR., SOC. SET, CUP PT. 3/8-16 X 3/8	4	100	THE STATE OF		
)	6716003	(NOT SHOWN)	2				
	6715037	SCR., HEX HD. CAP 5/16-18 X 1 1/2					
	5051000	(NOT SHOWN)	2			and the same of the Value	
2	6861200	WASHER, LOCK 5/16 (NOT SHOWN) WASHER, FLAT 5/16 (NOT SHOWN)	2 4	10	18-1		
	6515007	NUT, HEX JAM 5/16-18 (NOT SHOWN)	2	133	-		
5	2695013	SCR. ASSY., TABLE ROLL ADJ. R.H.	2		141-13		1000
5	2695014	SCR., ASSY., TABLE ROLL ADJ. L.H.	2				
7	3708005	(NOT SHOWN) LOCK, BEARING HOUSING, TABLE ROLLER	2				
	27.17.0000	(TWO NOT SHOUN)	4		400		1 3
3	651700€	NUT, HEX JAM 7/16-14 (FOUR NOT SHOWN)	8				
)	6861400 2673011	WASHER, LOCK 7/16 (TWO NOT SHOWN) ROLLER ASSY. INFEED & OUTFEED TABLE	4				
	207 3011	(ITEMS 30 THRU 32)	2	100	1	F 71 71 70 -	
3	3238022	HOUSING, BEARING, TABLE ROLL	2		75	the state of the estimate of the	
1	5060037	BEARING, FAFNIR 207KLL ROLLER, TABLE, INFEED & OUTFEED	2			The second second second	
2	3673021 3797056	TABLE, 24" PLANER	il				
:	3496201	KNOB, TEARDROP	1	1	10.00		
9	6716135				- 144		
	7269010	COME PT. HANDLE, QUICK SET SHAFT	111				
7	6716003	SCR., SOC. SET, CUP PT. 3/8-16 X 3/8	3		9 1		10 V
3	3604009	POINTER, QUICK SET ADJ.	1				1
9	6746001	SCR., PAN HD. SELF-TAPPING #6 X 1/4	1 1		T -		
	3684236 3096244	DIAL, DEPTH QUICK SET COLLAR, QUICK SET SHAFT	1 1				77
2	6715016	SCR., SOC. SET, CUP PT. 5/16-18 X 5/16	2				2.
3	6420002	KEY, WOODRUFF #608 (QUICK SET SHAFT)	3				1
	3704003	SHAFT, QUICK SET ADJ.	1			5 (1987 - N. W / N. P	15.1
					-7.77		
					1 1	100	0.63
				-		2	
				1			



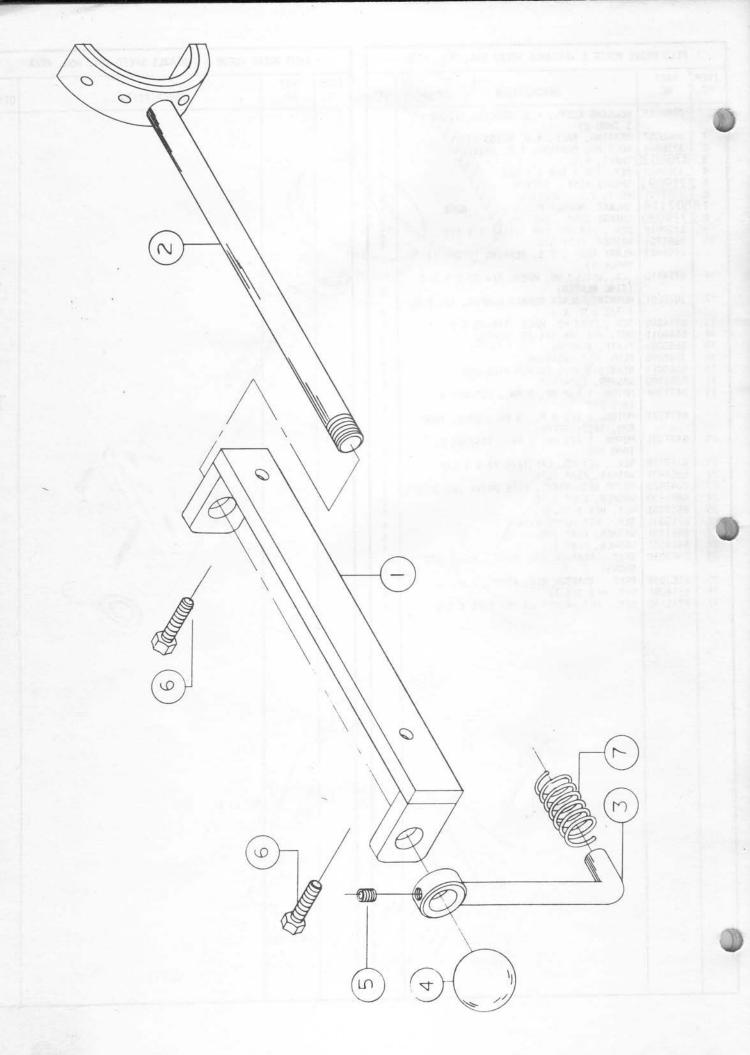
		FEED DRIVE AREA	
ITEM NO.	PART NO.	DESCRIPTION	QTY
	2192006	FEED ASSY., VARIABLE ADJ. (ITEMS 1	
1	6715016	THRU 11) SCR., SOC. SET, CUP PT. 5/16-18 X 5/16	3
2	3271039	HANDWHEEL, 8" DIA.	3
3	3747011	PLATE, SPEED DIAL	1
4	6716003	SCR., SOC. SET, CUP PT. 3/8-16 X 3/8 KEY, 3/16 X 3/16 X 1 1/2	1 3 2 1
5	3388008	KEY, 3/16 X 3/16 X 1 1/2	2
6 7 3	3706009	SHAFT, VARIABLE FEED COLLAR	1
8 1	3064061	BRKT., V.S. SHAFT	1
9	6609002	FITTING, GREASE #1637 1/4-28 NPT.,	1
10	3076019	CAM, VARIABLE FEED	1
11	6811284	SPACER, DE-STA-CO 3/8 I.D. X 1 1/8 O.D.	
10	6716001	X .034 THICK (NOT SHOWN)	4
12	6716031	SCR., HEX HD. CAP 3/8-16 X 1 ARM ASSY,V.S.REGLTG.(ITEMS 13 THRU 25)	1
13	2025021 3065014	BRACKET, PIVOT, V.S. ARM REGULATING	i
14	6622001	PIN, COTTER 2/32 X 3/16 (ONE NOT SHOWN)	2
15	3584022	PIN, V. S. ARM	ī
16	6716083	SCR., SO. HD. 3/8-16 X 1 3/4	1 1 1 1
17	6516009	NUT, HEX JAM 3/8-16	1
18	2025020	ARM, V.S. REGULATING (WELDMENT)	1
19 20	6715020 6861200	SCR., SOC. HD. CAP 5/16-18 X 1 WASHER. LOCK 5/16	2
21	3064048	BRACKET, ADJ., V.S. FEED	1
22	6715017	SCR., SOC. SET, CUP PT. 5/16-18 X 1	i
23	3737005	SPACER, 5/16 I.D. X 3/4 O.D. X 11/16	
24	COCOOO1	WIDE	1
24 25	6060001 6715026	BEARING, BALL, FAFNIR #38 PP SCR., SOC. HD. CAP 5/16-18 X 1 1/2	1
23	2753021	SPROCKET ASSY., LOWER COMPOUND (ITEMS	
	LIJJOLI	26 THRU 37)	
26	3063058	BRACKET, MOUNTING	1
27	6716003	SCR., SOC. HD. CUP PT. 3/8-16 X 3/8	3
28	3706008	SHAFT, COMPOUND SPROCKET	1
29	6679003	FITTING, GREASE, #1911, 1/4-28 NPT.,	1
30	3741002	SPACER, BEARING. 1 1/4 I.D. X 2 O.D. X 1/4 WIDE	2
31	6063001	BEARING. OUTER RACE, MCGILL #GR-24	í
32	6063002	BEARING, INNER RACE, MCGILL #MI-20	1
33	2753017	SPROCKET, LOWER DRIVE (WELDMENT)	1
34	2753022	SPROCKET, LOWER COMPOUND (WELDMENT)	1
35	3096030	COLLAR, 1 1/4 I.D. X 2 1/4 O.D. X 1/2 WIDE	,
36	3388004	KEY, 3/16 X 3/16 X 1	1
37	6715016	SCR., SOC. SET. CUP PT. 5/16-18 X 5/16	i
	2182004	DRIVE ASSY., COMPOUND FEED (ITEMS 38 THRU 49)	·
38	3063058	BRACKET. MOUNTING	1
39	6716003	SCR., SOC. SET, CUP PT. 3/8-16 X 3/8	3
40	3706010	SHAFT. FEED DRIVE	1
41 42	6063001	BEARING, OUTER RACE, MCGILL #GR-24 BEARING, INNER RACE, MCGILL # MI-20	1 2 2
43	3737012	SPACER, BEARING	1
44	2753015	SPROCKET ASSY., MOTOR DRIVEN	
-		(WELDMENT)	1
45	3717010	SHEAVE, FEEC DRIVE	1
46	3096030	COLLAR, 1 1/4 I.D. X 2 1/4 O.D. X	
47	6600000	1/2 WIDE	1
47	6609002	FITTING, GREASE. #1637, 1/4-28 NPT., 45°	1
48	6715016	SCR., SOC. SET, CUP PT. 5/16-18 X 5/16	i
49	3388014	KEY, 3/16 X 3/16 X 2 3/16	1
50	6718010	SCR., HEX HD. CAP 1/2-13 X 1 1/2	4
51	6861501	WASHER, FLAT 1/2	4
52	2753012	SPROCKET ASSY., FEED DRIVE (WELDMENT)	2
53	2753020	SPROCKET ASSY., OUTFEED BED ROLLER (WELDMENT)	1
54	2753019	SPROCKET ASSY., BED ROLL TRAIN DRIVE	
	- 15	(WELDMENT)	1
55	2753013	SPROCKET ASSY., OUTFEED DRIVE (WELDMENT	
56	2753016	SPROCKET ASSY., OUTFEED ROLLER	
		(WELDMENT)	1

	1200000		_
NO.	PART NO.	DESCRIPTION	QTY
57 58	2753018 3388027	OUTFEED TRAN DRIVE SPROCKET ASSY. (WELDMENT) KEY, 1/4 X 1/4 X 1 5/8	1 4
59	6716003	SCR., SOC. SET, CUP PT., 3/8-16 X 3/8	17
60	3064063	BRACKET INNER	1
61	6576001 3741003	NUT, HEX 1"-14 (INNER BRACKET SHAFT)	1
62	3578044	SPACER, OUTFEED DRIVE SHAFT PANEL, SIDE R.H.	1
64	3700010	SHAFT, INNER BRACKET, OUTFEED DRIVE	i
65	6063001	BEARING, OUTER RACE, MCGILL #GR-24	2 2
66	6063002	BEARING, INNER RACE, MCGILL #MI-20	2
67 68	6063009 6063012	BEARING, OUTER RACE, MCGILL #GR-26 BEARING, INNER RACE, MCGILL # MI-224S	1
69	3096030	COLLAR, 1 1/4 I.D. X 2 1/4 O.D. X 1/2	1
	5050000	WIDE	2
70	6609004	FITTING, GREASE, #1641, 1/4-28 NPT.	2
71	3706012	SHAFT, INNER BRACKET, BED ROLLER	1
72 73	3065013 3096037	BRACKET, MTG., FEED DRIVE ROLLER GEAR COLLAR, TRAIN DRIVE SHAFT	1
74	3741002	SPACER, BEARING, 1 1/4 I.D. X 2 O.D. X	1
	3741002	1/4 WIDE	2
75	3083009	CHAIN, BED ROLLER DRIVE (30 1/2) #50 (NOT SHOWN)	1
76	3083010	CHAIN, UPPER COMP. DR. & FD. ROLL DR. (40") # 50 (NOT SHOWN)	2
77 78	3083012 3083013	CHAIN. BED ROLLER DRIVE (27) # 50 (NOT SHOWN) CHAIN, COMP. SHEAVE, LOWER (43 1/2)	1
79	3083021	#50 (NOT SHOWN) CHAIN, # 50, 5/8 PITCH (64 1/4) (NOT	1
80	6452005	SHOWN) LINK, CHAIN, CONNECTING, ASA #50, 5/8	1
81	6452006	PITCH (NOT SHOWN) LINK, CHAIN, CONNECTING, ASA #50, 5/8	3
		PITCH (OFFSET) (NOT SHOWN)	3
82	6077064	BELT, GATES #2610 (ALTERNATE #4L-610) (MATCHED SET OF 3)	
		(MATCHED SET OF 3)	-
		Itama 75 76 77 70 70	
-	1000	Items 75, 76, 77, 78, 79 -	
		Use Part No. 6114017	
		(Sold by the foot)	
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3298042	EM PART C. NO.	DESCRIPTION	QTY
6060057 BEARING, BALL, N.D. RA103 ATT 3298042 HOUSING, BEARING, V.S. DRIVE 37060 35 SHAFT, V.S. 1 1 388027 KEY, 1/4 X 1/4 X 1 5/8 2 2 2 1 1 6077131 SHEAVE ASSY., DRIVEN 1 1 6077131 SHEAVE ASSY., DRIVEN 1 2 2 3 4 2 7 1 5 8 5 1 5 8 1 5	2298015		- 6
3298042 HOUSING, BEARING, V.S. DRIVE 3706035 SHAFT, V.S. 1 3388027 KEY, 1/4 X 1/4 X 1 5/8 2 2719091 SHEAVE ASSY., DRIVEN 1 6077131 BELT, V.S. 1922V338 1 8007114 SHEAVE ASSY., DRIVING 1 6720018 SHEAVE ASSY., DRIVING 1 6720018 SCR., HEX HD. CAP 5/8-11 X 1 1/2 2 6861701 WASHER, FLAT 5/8 2 2 2 2 2 2 2 2 2	1 6060057		2
3388027 KEY, 1/4 X 1/4 X 1 5/8 2719091 SHEAVE ASSY., DRIVEN 1 6077131 6077134 SHEAVE ASSY., DRIVING 1 2719090 SHEAVE ASSY., DRIVING 1 2595003 SCR., HEX HD. CAP 5/8-11 X 1 1/2 2 WASHER, FLAT 5/8 2 2 2 2 2 2 2 2 2		HOUSING, BEARING, V.S. DRIVE	1
2719091 SHEAVE ASSY., DRIVEN BELT, V.S. 1922V338 SHEAVE, MAUREY D2325 1 BORE 2719090 SHEAVE, MAUREY D2325 1 BORE 6861701 SHEAVE, MAUREY D2325 1 BORE 6861701 WASHER, FLAT 5/8 PLATE ASSY., V.S. BEARING (ITEMS 11 THRU 18) SCR., FILL, HD. MACH. 1/4-20 X 1 1/2 (ZINC PLATED) 3070201 BUSHING, BLACK RUBBER BUMPER, 1/4 I.D. X 1/2 0.D. X 1 6714056 SCR., FLAT HD. MACH. 1/4-20 X 1 NUT, HEX JAM 1/4-20, PLATED 3595005 PLUG, V.S. BEARING 6514011 NUT, HEX JAM 1/4-20, PLATED 3598005 PLUG, V.S. BEARING 66060013 BEARING, BALL FAFNIR 9106 NPP WASHER, LOCK 1/4 MOTOR, 1 1/2 HP, 3 PH., 230/460 V, 1800 RPM 6471304 MOTOR, 1 1/2 HP, 3 PH., 200V, 1800 RPM, 145T. TEFC 6471301 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 6717018 SCR., HEX HD. CAP 7/16-14 X 1 1/2 WASHER, FLAT 7/16 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 6717018 SCR., HEX HD. CAP 7/16-14 X 1 1/2 WASHER, FLAT 7/16 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 5CR., HEX HD. CAP 7/16-14 X 1 1/2 WASHER, FLAT 7/16 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 5CR., HEX HD. 3/8-16 X 1 WASHER, FLAT 3/8 WASHER, FLAT 3/8 WASHER, FLAT 3/8 WASHER, FLAT 1/2 2063038 BRKT., ADAPTOR MTG, ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG, ASSY., L.H. 1 4			
6807114 SHEAVE, MAUREY D2325 1 BORE 1 2719090 6720018 SCR., HEX HD. CAP 5/8-11 X 1 1/2 2 WASHER, FLAT 5/8 2 2595003 PLATE ASSY., V.S. BEARING (ITEMS 11 THRU 18) 6714110 SCR., FILL, HD. MACH. 1/4-20 X 1 1/2 (ZINC PLATED) 3070201 BUSHING, BLACK RUBBER BUMPER, 1/4 I.D. X 1/2 0.D. X 1 5CR., FLAT HD. MACH. 1/4-20 X 1 1 1 1 1 1 1 1 1 1	5 271909	SHEAVE ASSY., DRIVEN	1
6720018 SCR., HEX HD. CAP 5/8-11 X 1 1/2 2 2 2 2 2 2 2 2 2	7 680 7 1 1 4	SHEAVE, MAUREY D2325 1 BORE	
Company			1
THRU 18) SCR., FILL, HD. MACH. 1/4-20 X 1 1/2 (ZINC PLATED) 3070201 BUSHING, BLACK RUBBER BUMPER, 1/4 I.D. X 1/2 0.D. X 1 6714056 SCR., FLAT HD. MACH. 1/4-20 X 1 1 3595005 JEARING STRAING	CONTRACTOR CONTRACTOR	WASHER, FLAT 5/8	
6714110 SCR., FİLL, HD. MACH. 1/4-20 X 1 1/2 (ZINC PLATED) 3070201 BUSHING, BLACK RUBBER BUMPER, 1/4 I.D. X 1/2 O.D. X 1 1 6714056 SCR., FLAT HD. MACH. 1/4-20 X 1 1 3595005 PLATE, BEARING 3598005 PLATE, BEARING 6060013 BEARING, BALL FAFNIR 9106 NPP 1 1 1 1 1 1 1 1 1	2595003		
(ZINC PLATED) 1 1 1 1 1 1 1 1 1	6714110		
X 1/2 0.D. X 1 1 1 1 1 1 1 1 1 1	3070201	(ZINC PLATED)	1
6714056 SCR., FLAT HD. MACH. 1/4-20 X 1 1 3595005 PLATE, BEARING 1 1 1 1 1 1 1 1 1	30/0201	X 1/2 0.D. X 1	
3595005		SCR., FLAT HD. MACH. 1/4-20 X 1	1
3598005 PLUG, V.S. BEARING 6060013 BEARING, BALL FAFNIR 9106 NPP 10861100 WASHER, LOCK 1/4 1800 RPM 6471322 MOTOR, 1 1/2 H.P., 3 PH., 230/460 V, 1800 RPM, 145T, TEFC 6471301 MOTOR, 1 1/2 H.P., 3 PH., 200V, 1800 RPM, 145T, TEFC 6471301 MOTOR, 1 1/2 H.P., 1 PH., 115/230 V, 1800 RPM 6717018 SCR., HEX HD. CAP 7/16-14 X 1 1/2 2 WASHER, FLAT 7/16 2 2 WASHER, FLAT 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		PLATE, BEARING	- 1
6861100 WASHER, LOCK 1/4 6471304 MOTOR, 1 1/2 HP, 3 PH., 230/460 V, 1800 RPM 6471322 MOTOR, 1 1/2 H.P., 3 PH., 200V, 1800 RPM, 145T, TEFC 6471301 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 6717018 SCR., HEX HD. CAP 7/16-14 X 1 1/2 2042020 WASHER, FLAT 7/16 2042020 WASHER, FLAT 7/16 3661490 WASHER, LOCK 7/16 6517901 NUT, HEX 7/16-14 6716031 SCR., HEX HD. 3/8-16 X 1 6861501 WASHER, FLAT 3/8 6861501 WASHER, FLAT 1/2 2063038 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 4	3598005	PLUG, V.S. BEARING	2
6471304 MOTOR, 1 1/2 HP, 3 PH., 230/460 V, 1800 RPM MOTOR, 1 1/2 H.P., 3 PH., 200V, 1800 RPM, 145T. TEFC MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM SCR., HEX HD. CAP 7/16-14 X 1 1/2 2 WASHER, FLAT 7/16 MOTOR BASE ASSY., FEED DRIVE (WELDMENT) 6861400 WASHER, LOCK 7/16 NUT, HEX 7/16-14 SCR., HEX HD. 3/8-16 X 1 4 G861301 WASHER, FLAT 3/8 WASHER, FLAT 3/8 WASHER, FLAT 1/2 2063038 WASHER, FLAT 1/2 2063039 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) BRKT., ADAPTOR MTG. ASSY., L.H. 1 4 G516301 NUT, HEX 3/8-16			
6471322 MOTOR, 1 1/2 H.P., 3 PH., 200V, 1800 RPM, 145T, TEFC 6471301 MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM 5717018 SCR., HEX HD. CAP 7/16-14 X 1 1/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6471304	MOTOR, 1 1/2 HP, 3 PH., 230/460 V,	
RPM, 145T, TEFC MOTOR, 1 1/2 HP, 1 PH., 115/230 V, 1800 RPM SCR., HEX HD. CAP 7/16-14 X 1 1/2 2 WASHER, FLAT 7/16 2042020 MOTOR BASE ASSY., FEED DRIVE (WELDMENT) 6861400 MASHER, LOCK 7/16 6517901 NUT, HEX 7/16-14 6716031 SCR., HEX HD. 3/8-16 X 1 6861501 WASHER, FLAT 3/8 6861501 WASHER, FLAT 1/2 2063038 WASHER, FLAT 1/2 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516901 NUT, HEX 3/8-16	6471322		1
1800 RPM SCR. HEX HD. CAP 7/16-14 X 1 1/2 2 WASHER, FLAT 7/16 2 WASHER, FLAT 7/16 1 WASHER, LOCK 7/16 1 WASHER, LOCK 7/16 1 WASHER, LOCK 7/16 2 WASHER, FLAT 3/8 4 WASHER, FLAT 3/8 4 WASHER, FLAT 3/8 4 WASHER, FLAT 1/2 4 WASHER, FLAT 1/2 2 WASHER, FLAT 1/2 4 WASHER, F	6471301	RPM, 145T, TEFC	1
6861401		1800 RPM	1
2042020 MOTOR BASE ASSY., FEED DRIVE (WELDMENT) 1 6861490 WASHER, LOCK 7/16 2 6517901 NUT, HEX 7/16-14 2 6716031 SCR., HEX HD. 3/8-16 X 1 4 WASHER, FLAT 3/8 4 6861501 WASHER, FLAT 1/2 2063038 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516901 NUT, HEX 3/8-16 4	250 (W) A441 (C) 251 V 541		2
6517901 NUT, HEX 7/16-14 6716031 SCR., HEX HD. 3/8-16 X 1 6861301 WASHER, FLAT 3/8 6861501 WASHER, FLAT 1/2 2063038 WASHER, FLAT 1/2 2063039 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516301 NUT, HEX 3/8-16	3 2042020	MOTOR BASE ASSY., FEED DRIVE (WELDMENT)	1
6716031 SCR., HEX HD. 3/8-16 X 1 4 6861301 WASHER, FLAT 3/8 4 6861501 WASHER, FLAT 1/2 2063038 BKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516301 NUT, HEX 3/8-16 4			2
6861501 WASHER, FLAT 1/2 2063038 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516001 NUT, HEX 3/8-16	6716031	SCR., HEX HD. 3/8-16 X 1	4
2063038 BRKT., ADAPTOR MTG. ASSY., R.H. (NOT SHOWN) 1 2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516001 NUT, HEX 3/8-16 4			
2063039 BRKT., ADAPTOR MTG. ASSY., L.H. 1 6516301 NUT, HEX 3/8-16 4		BRKT., ADAPTOR MTG. ASSY., R.H. (NOT	
6516001 NUT, HEX 3/8-16	2063039		
5715180 SCR HEX WASHER HD. 5/16-18 X 5/8 4	6516001	NUT, HEX 3/8-16	4
	6715180	SCR HEX WASHER HD. 5/16-18 X 5/8	4
		1 / / / / / / / / / / / / / / / / / / /	

TEM NO.	PART NO.	DESCRIPTION	QTY
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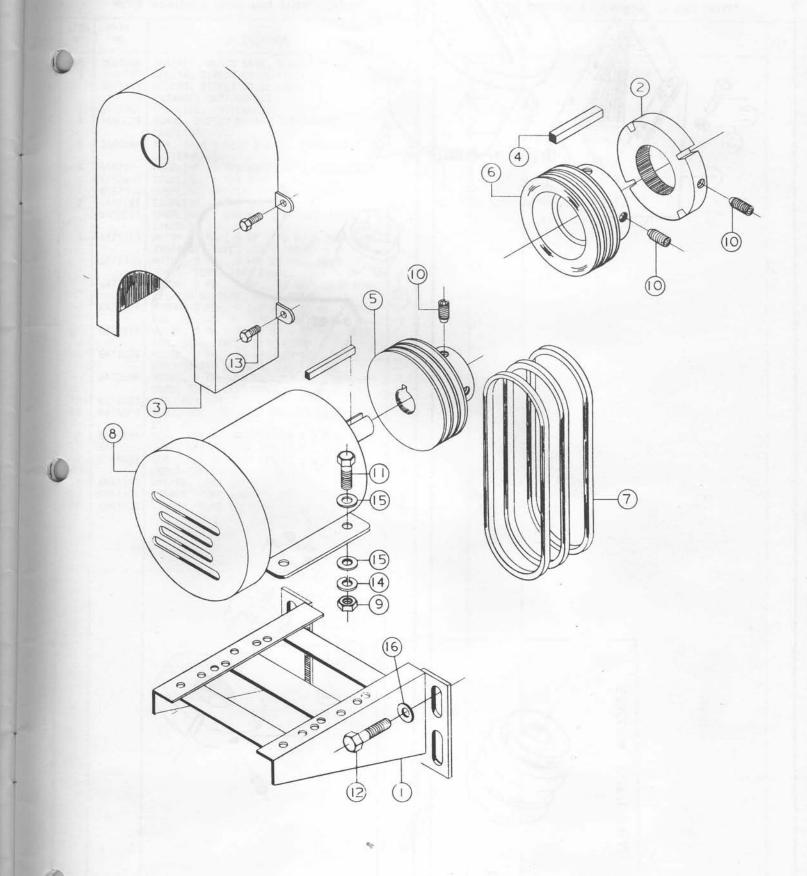


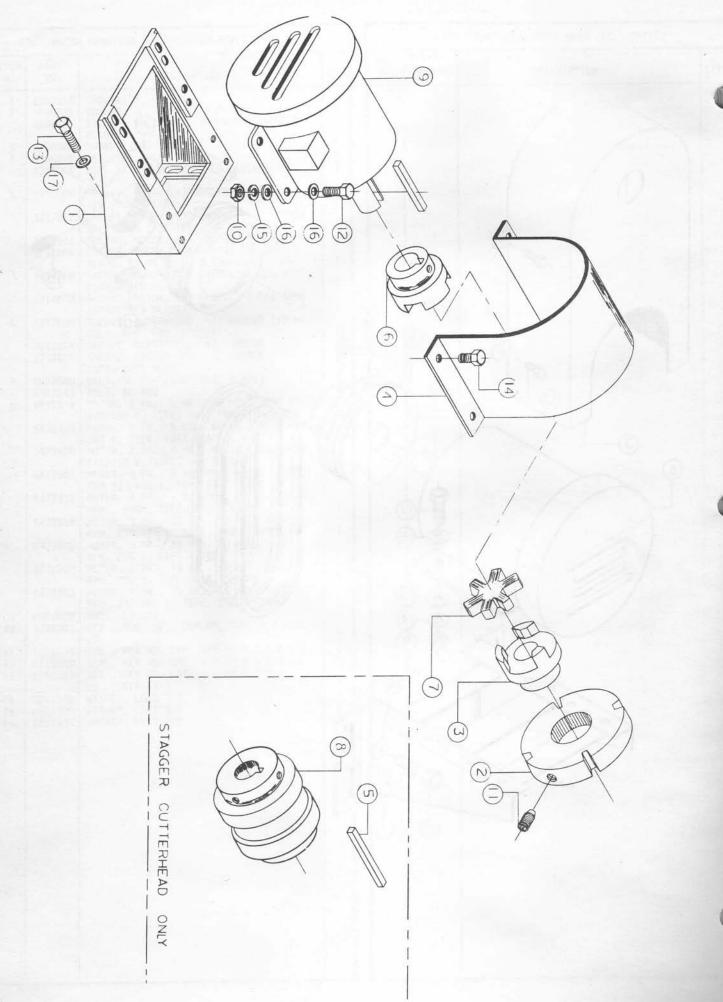
		BRAKE ASSEMBLY	
ITEM NO.	PART NO.	DESCRIPTION	QTY
1 2 3 4 5 6 7	2063030 2068002 2670010 6430010 6715016 6716031 6813016	BRACKET, BRAKE MOUNTING (WELDMENT) BRAKE SHOE ASSY. ROD ASSY., OPERATING KNOB, 1 7/8 DIA. X 5/8-16 THD. INSERT SCR., SOC. SET, CUP PT. 5/16-18 X 5/16 SCR., HEX HD. CAP 3/8-16 X 1 SPRING, DUDEK & BOCK #18236	1 1 1 1 2 1
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		Barrier H. C. W. S. Williams	
	14.8	PARTY LAND TARGET SOLET	
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ITEM NO.	PART NO.	DESCRIPTION	QTY
1 2	2042015 3096032 3096105	BASE ASSY., MOTOR COLLAR, BELT DRIVE INDEXING COLLAR, BELT DRIVE INDEXING (STAGGER	1
3 4	3250064 3388020 3388044	BLADE) GUARD, 3600 RPM Belt KEY, 1/4 X 1/4 X 2 LG. KEY, 5/16 X 5/16 X 2 LG. (STAGGERED	1 1 1 1
5	3717008	SHEAVE, MOTOR (4) GROOVE (15 HP ONLY:	
	3717012	ALT. FOR 3717013) SHEAVE, MOTOR, (3) GROOVE, 1 3/8 BORE	1
	3717013 3717068	(ALT. FOR 3717013) SHEAVE, MOTOR, (3) GROOVE, 1 1/8 BORE SHEAVE, MOTOR, (4) GROOVE (STAGGERED BLADE, 15 HP ONLY, ALT. FOR 3717069)	1 1
	3717069	SHEAVE, MOTOR, (3) GROOVE, 1 3/8 BORE (STAGGERED BLADE)	1
	3717070	SHEAVE, MOTOR, (3) GROOVE, 1 1/8 BORE	
6	3717009	(STAGGERED BLADE) SHEAVE, CUTTERHEAD, (4) GROOVE (15 HP	1
	3717014 3717071	ONLY, ALT. FOR 3717014) SHEAVE, CUTTERHEAD, (3) GROOVE SHEAVE, CUTTERHEAD, (3) GROOVE (STAGGERED BLADE)	1
7 8	6077040 6077043 6472319	BELT, 5L-450 (STÁGGERED BLADE) BELT, 5L-480 MOTOR, 3 PH., 5 HP., 60 HZ., 3600 RPM.	1
	6472320	230/460 V, TEFC, 184T FRAME MOTOR, 3 PH., 5 HP., 60 HZ., 3600 RPM,	1
	6472328	200 V, TEFC, 184T FRAME MOTOR, 1 PH., 5 HP., 60 HZ., 3600 RPM,	1
	6472507	115/230 V. TEFC, 184 T FRAME MOTOR. 3 PH., 7 1/2 HP., 60 HZ., 3600	1
	6472512	RPM 230/460 V, TEFC 213T FRAME MGTOR, 3 PH., 7 1/2 HP., 60 HZ., 3600	1
	6472604	RPM., 200V, TEFC, 213 T FRAME MOTOR, 3 PH 10 HP., 60 HZ., 3600	1
	6472606	RPM, 230/460 V, TEFC, 215 T FRAME MOTOR, 3 PH., 10 HP., 60 HZ., 3600	1
	6472702	RPM, 200 V, TEFC, 215T FRAME MCTOR, 3 PH., 15 HP., 60 HZ., 3600	1
	6472703	RPM, 200 V, TEFC, 254 T FRAME MOTOR, 3 PH., 15 HP., 60 HZ., 3600	1
10200	6516007 6716003	RPM, 230/460 V. TEFC. 254 T FRAME NUT, HEX 3/8 SCR., SOC. SET. CUP PT. 3/8-16 X 3/8	1 4
2	6716039 6718009 6746023	LG. SCR., HEX HD. CAP, 3/8-16 X 1 1/4 LG. SCR., HEX HD. CAP, 1/2-13 X 1 1/4 LG. SCR., HEX HD. CAP, 1/4-20 X 5/8	5 4 4
5	6861301	LG. (SELF-TAP) WASHER, LOCK 3/8 WASHER, LOCK 3/8 WASHER, FLAT 1/2	4 8 4

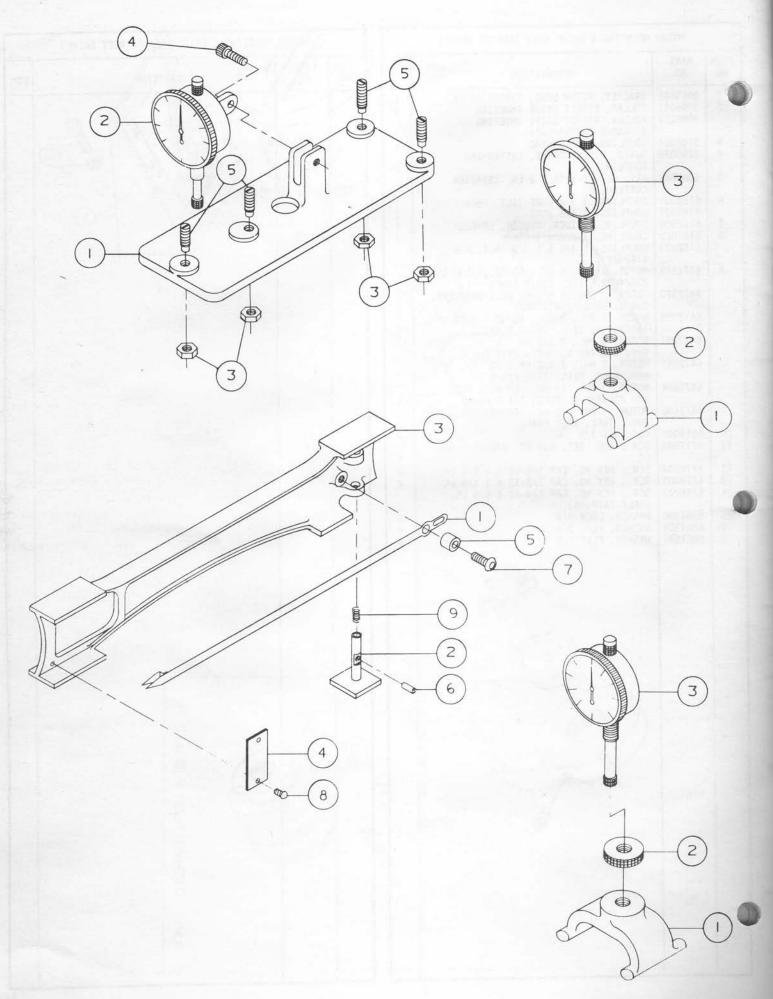
	мотоя	R MOUNTING & DRIVE AREA (BELT DRIVE)	
ITEM NO.	PART NO.	DESCRIPTION	QTY.
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	MOTOR	MOUNTING & DRIVE AREA (DIRECT DRIVE)	
ITEM NO.	PART NO.	DESCRIPTION	QTY
1 2	3063086 3096047 3096105	BRACKET, MOTOR BASE, DIRECT DRIVE COLLAR, DIRECT DRIVE INDEXING COLLAR, DIRECT DRIVE INDEXING	1
3 4	3102001 3250079	(STAGGER CUTTERHEAD) COUPLING, CUTTERHEAD GUARD, DIRECT DRIVE, CUTTERHEAD	1
5	3388044	COUPLING KEY, 5/16 X 5/16 X 2 LG. (STAGGER	1
6	6162001 6162007	CUTTERHEAD) COUPLING, 1 3/8 BORE (ALT. FOR6162007) COUPLING, 1 1/8 BORE	1 1 1
7 8	6162008 6162022 6162023	COUPLING, SPIDER, RUBBER, LOVEJOY COUPLING, 1 3/8 X 1 1/8 COUPLING, 1 3/8 X 1 3/8 (ALT. FOR 6162022)	1 1
9	6472319	MOTOR, 3 PH., 5 HP., 60 HZ., 3600 RPM,	1
	6472320	230/460V, TEFC, 184 T FRAME MOTOR, 3 PH 5 HP, 60 HZ., 3600 RPM, 200 V, TEFC, 184T FRAME	1
1	6472328	MOTOR, 1 PH., 5 HP., 60 HZ., 3600 RPM, 115/230 V, TEFC, 184 T FRAME	1
	6472507	MOTOR, 3 PH., 7 1/2 HP 60 HZ., 3600 RPM, 230/460 V, TEFC, 213T FRAME	1
	6472512	MOTOR. 3 PH., 7 1/2 HP., 60 HZ., 3600 RPM, 200V, TEFC, 213T FRAME	1
	6472604	MOTOR, 3 PH., 10 HP., 60 HZ., 3600 RPM 230/460 V, TEFC, 215 T FRAME	1
	6472606	MOTOR, 3 PH. 10 HP. 60 HZ., 3600 RPM 200V, TEFC, 215T FRAME	1
10 11	6516007 6716003	NUT, HEX 3/8 SCR., SOC. SET, CUP PT. 3/8-16 X 3/8 LG.	4
12 13 14	6716039 6718009 6746023	SCR., HEX HD. CAP 3/8-16 X 1 1/4 LG. SCR., HEX HD. CAP 1/2-13 X 1 1/4 LG SCR., HEX HD. CAP 1/4-20 X 5/8 LG.	4 4
15	6861300 6861301	(SELF-TAPPING) WASHER, LOCK 3/8 WASHER, FLAT 3/8	4 4 8
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ITEM NO.	PART	DESCRIPTION	QTY
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ITEM NO.	PART NO.	DESCRIPTION	QTY.
1 2 3 4 5	3042031 6391901 6515007 6714018 6715171	NUT, HEX JAM 5/16" - 18 SCR., SOC. HD. CAP 1/4" - 20 X 3/4"	1 1 4 1 4 4

NO. NO.	DESCRIPTION	QTY

	2230007	GAUGE, CUTTERHEAD QUIET	
ITEM NO.	PART NO.	DESCRIPTION	OTY.
1 2 3	3042340 3523003 6391002		1 1 1
		-//-/	

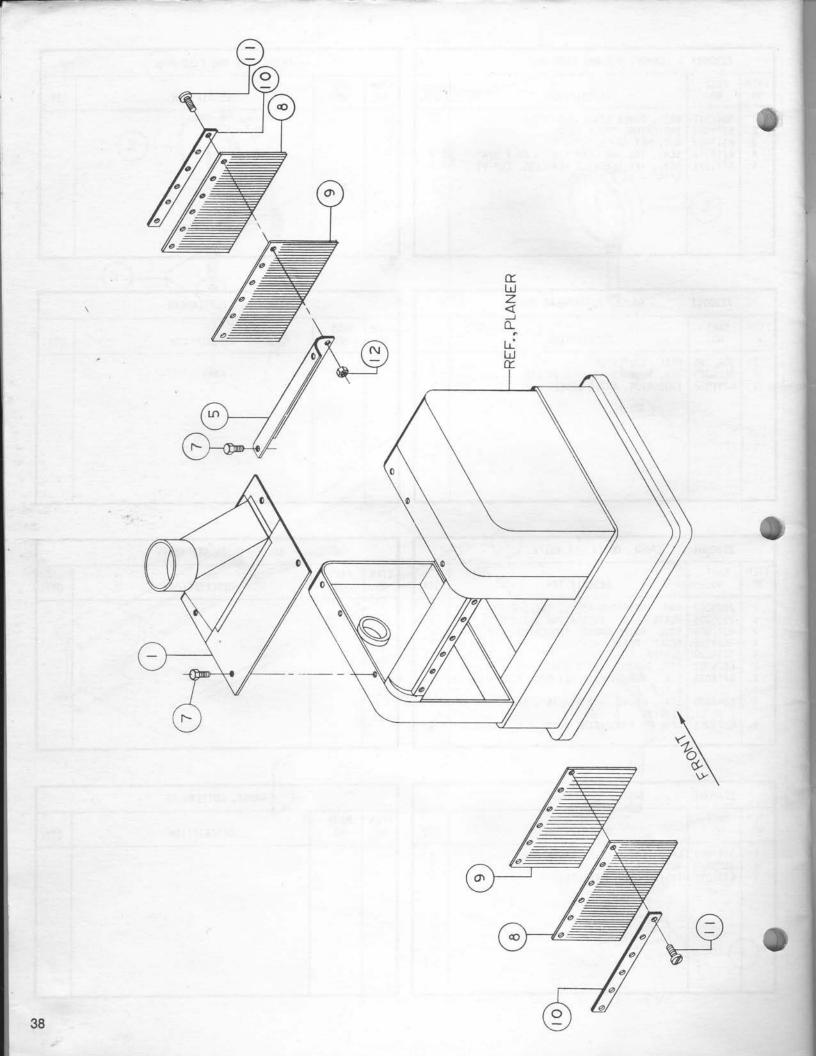
GAUGE, CUTTERHEAD			
ITEM NO.	PART NO.	DESCRIPTION	QTY.

	2230001	GAUGE, QUICK SET KNIFE	
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	2025012	ARM, INDICATOR ASSY., (WELDMENT)	1
2	2595005		1
3 4 5	3042060	BASE. KNIFE GAUGE, INDICATOR J-21	1
4	3634226	SCALE. PLATE, KG-1	1
	3735222		1
6	6626002		1
7	6714033	SCR., BUTTON HD., HEX SOC. 1/4" - 20 x 1/2"	1
8	6747000	SCR., DRIVE, # 4 X 3/16", NICKEL PLATED	2
9	6813053	SPRING, INDICATING PLATE # KG-140-0041	1

GAUGE, QUICK SET KNIFE			
NO.	PART NO.	DESCRIPTION	QTY
	1/4		

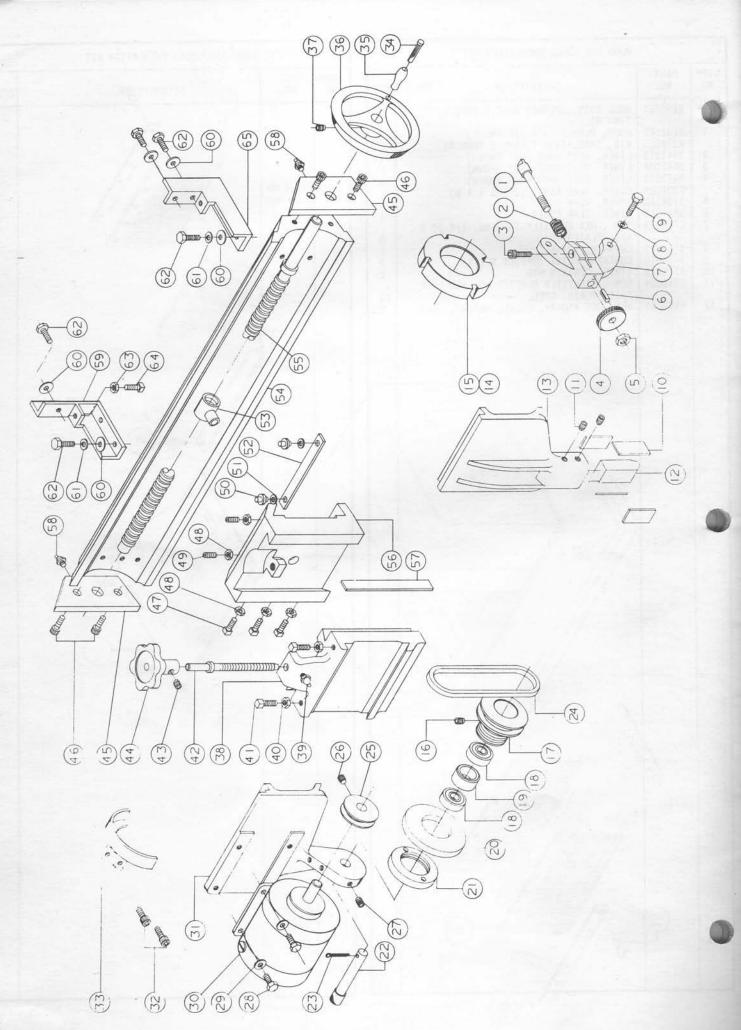
	2230003	GAUGE, CUTTERHEAD	
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1 2 3	3042009 3528003 6391002		1 1 1

GAUGE, CUTTERHEAD			
ITEM NO.	PART NO.	DESCRIPTION	QTY



		HOOD AND SOUND INSULATION KIT			
ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	P
1 2 3 4 5 6 7 8 9	2292027 2292022 2378005 3441013 3441004 3441010 2104029 3104310 3441018 6746023 3108005 3108010	HOOD ASSY., PLANER DUST (ITEMS 1 THRU 4) HOOD, PLANER DUST (WELDMENT) KIT, INSULATION (ITEMS 2 THRU 4) LINER, DUST HOOD (NOT SHOWN) LINER, DUST HOOD (NOT SHOWN) LINER, DUST HOOD (NOT SHOWN) COVER, REAR ASSY. (ITEMS 5 & 6) COVER, REAR LINER, REAR COVER SCR., HEX HD. SELF-TAPPING, 1/4-20 X 5/8, PLATED CURTAIN, NOISE CURTAIN, NOISE (OFFSET SLITS)	1 1 2 2 1 1 8 2 2		
10	3770228 6710024	STRIP. CURTAIN MTG. SCR., FILLISTER SLOTTED HD. #10-24 X	2		
12	6510001	7/16, PLAIN, STEEL NUT, HEX #10-24, STEEL, PLAIN	14 7		
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TEM NO.	PART		
NO.	NO.	DESCRIPTION	QTY
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		GRINDER ASSEMBLY, KNIFE	
NO.	PART NO.	DESCRIPTION	QTY
	2601004	INDEXING PLUNGER ASSY., (ITEMS 1	
1 2	3601003 6813073	THRU 9) PLUNGER, INDEXING SPRING, COMPRESSION, .600 O.D. X .556 I.D. X 1 3/4"	1
3	6710016	SCR., SOC. HD. CAP, # 10-24 X 5/8"	1
5	3406002 6516007	KNOB, INDEX PLUNGER NUT, HEX, 3/8"- 16 (ZINC PLATED)	1
6	6626056	PIN, SPRING, 5/32" X 3/4"	1
7 8	3298028 6861500	HOUSING, INDEXING BELT DR. WASHER, LOCK	1 2
9	6718010 2277025	SCR., HEX HD. CAP HEAD, JOINTING ASSY., (ITEMS 10 THRU 13)	2
10 11	3244012 6714011	GIB, SHIM, JOINTING STONE SCR., SOC. SET, FLAT HD., 1/4"-20 X	4
12	6818000	1/4" STONE, WHEEL, DRESSING	1
	3277003	HEAD. JOINTING COLLAR, INDEXING, STANDARD CUTTERHEAD	1
15	3096105	COLLAR, INDEXING, STAGGER CUTTERHEAD 3 GRINDER, KNIFE ASSY., (ITEMS 16 THRU 133)	i
	2024011	ARBOR & GRINDER WHEEL ASSY., (ITEMS 16 THRU 23)	
16	6714006	SCR., SOC. SET, KNURLED CUP PT., 1/4"- 20 X 3/16"	1
17	3301013	HUB, GRINDER WHEEL BEARING, BALL, N.D. Z993L01	1 2
19	3741001	SPACER, GRINDER WHEEL, SHAFT	1
20	6900003 3530004	WHEEL, GRINDER, SIMONDS # WA46H8V2 NUT, GRINDER WHEEL HUB	1
22	3749201	SPINDLE, GRINDER	1
23	6622007	PIN, COTTER KEY, 3/32" X 3/16" X 3/4" BELT. 3L-250	1
25	6307105	SHEAVE, # OK35 BROWNING, 1/2" BORE	1
26	6714004 6715018	SCR., SOC. SET, 1/4"-20 X 1/4"	1
28	6714127	SCR., SOC. SET. 5/16" - 18 X 5/8" SCR., HEX HD., 1/4" - 20 X 1/2"	1 4
29	6861101	WASHER, FLAT. 1/4"	4
30	6473301 3063030	MOTOR. 1/3 HP, MARATHON BRACKET, MOUNTING (KNIFE GRINDER)	1
32	6710015	SCR., SOC. HD. CAP, # 10 - 24 X 1/2"	2
33		BAR ASSY., GRINDER (ITEMS 34 THRU	1
	2271006	HANDWHEEL ASSY., LEAD SCREW (ITEMS	
34	6624006	34 THRU 37) PIN, GROOVE, STEEL, 1/4" X 3	1
35 36	3268201 3271049	HANDLE, NYLON MACHINE HANDWHEEL, 6" DIA.	1
37	6715013	SCR., SOC. SET, CUP PT. 5/16"-X 3/8"	1
38	2730008 3730009	SLIDE ASSY., VERT. ADJ. (ITEMS 39 THRU 41 SLIDE, GRINDER	
39	6609004	FITTING, GREASE, STRAIGHT, 1/4" - 28	1
40	6515007	NPT, # 1641-B NUT, HEX JAM, 5/16" - 18, ZINC PLATED	2
41	6715097	SCR., SQ. HD. 5/16" - 18 X 1 1/4"	2
42 43	3690214	SCREW, VERTICAL FEED SCR., SOC. SET, CUP PT. 5/16" - 18 X 3/8"	1
44	3271007	HANDWHEEL, VERTICAL FEED	1
45 46	3055016 6715023	BLOCK, LEAD SCR. BEARING SCR SOC. HD. CAP, 5/16" - 18 X 1/2"	2
47	6714072	SCR., SQ. HD., 1/4" - 20 X 1	2 4 3 5
48 49	6514008 6714139	NUT, HEX JAM, 1/4" - 20 SCR., SOC. SET, KNURLED CUP PT., 1/4" -	5 2
50	3601202 6813071	20 X 5/8" PLUNGER, CROSS FEED SLIDE SHIM SPRING, SCHNORR, 11/16" X .382 X .0275	2 2
	00130/1	(BEVEL WASHER)	1
52 53	3244008	GIB, SHIM, CROSS FEED NUT. ASSY., FEED SCREW (WELDMENT)	1
54	3044056	BAR, GRINDER	1
55	3691017	SCREW, CROSS FEED LEAD	1
56	3/30002	SLIDE, GRINDER HORIZONTAL	1

TEM NO.	PART NO.	DESCRIPTION	QTY
57 58	3244007 6609002	GIB, SHIM, VERTICAL FEED FITTING, GREASE, 1/4" - 28 NPT, 45°,	1
59 60 61 62 63 64 65	3063013 6861309 6861300 6716039 6515007 6715097 3063015	ALEMITE BRKT., BAR MTG., L.H. WASHER, FLAT, 3/8" WASHER, LOCK, 3/8" SCR., HEX HD., 3/8" - 16 X 1 1/4" NUT. HEX JAM, 5/16" - 18 SCR., SQ. HD., 5/16" - 18 X 1 1/4" BRKT., BAR MTG., R.H.	1 7 4 7 2 2 1

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MAY 1980

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