



12" BAO/S

Surface Planer and Thicknesser

INSTRUCTION MANUAL No. 3023



12" BAO/S

Surface Planer and Thicknesser

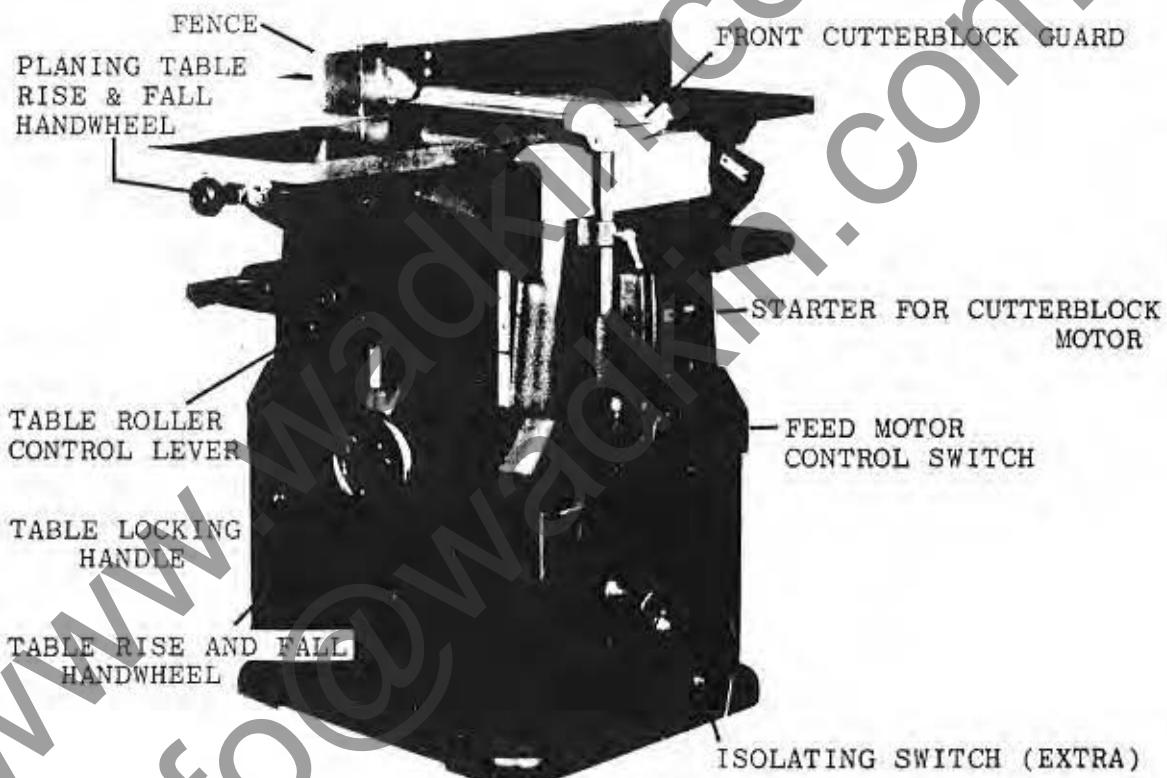
M/C No.
TEST No.

INSTRUCTION MANUAL

INSTRUCTION MANUAL FOR

12" BAO/S

Surface Planer and Thicknesser



PREFACE

IMPORTANT

IT IS OUR POLICY AND THAT OF OUR SUPPLIERS TO CONSTANTLY REVIEW THE DESIGN AND CAPACITY OF OUR PRODUCTS. WITH THIS IN MIND WE WOULD REMIND OUR CUSTOMERS THAT WHILE THE DIMENSIONS AND PERFORMANCE DATA CONTAINED HEREIN ARE CURRENT AT THE TIME OF GOING TO PRESS, IT IS POSSIBLE THAT DUE TO THE INCORPORATION OF THE LATEST DEVELOPMENTS TO ENHANCE PERFORMANCE, DIMENSIONS AND SUPPLIERS MAY VARY FROM THOSE ILLUSTRATED

THIS MANUAL IS WRITTEN AS A GENERAL GUIDE. A TYPICAL MACHINE IS SHOWN TO ILLUSTRATE THE MAIN FEATURES.

Failure to comply with instructions in this book may invalidate the guarantee

HEALTH & SAFETY

SAFETY OF WOODWORKING MACHINES

Woodworking machines can be dangerous if improperly used. The wide range of work of which they are capable, requires adequate safeguarding arrangements against possible hazards.

Many injuries to machinists are caused by carelessness or failure to use the guards provided or to adjust them correctly.

Wadkin plc supply machinery designed for maximum safety which they believe, as a result of thorough testing, minimizes the risks inevitable in their use. It is the users responsibility to see that the following rules are complied with to ensure safety at work:

1. The operation of the machine should conform to the requirements of the Woodworking Machines Regulations 1974. All guards should be used and adjusted correctly.
2. Safe methods of working only should be adopted as given in the Health and Safety Work Booklet No. 41, "Safety in the use of Woodworking Machines", (obtainable from Her Majesty's Stationery Office) and as advised by Wadkin plc.
3. Only personnel trained in the safe use of a machine should operate it.
4. Before making adjustments or clearing chips, etc., the machine should be stopped and all movement should have ceased.
5. All tools and cutters must be securely fixed and the speed selected must be appropriate for the tooling.

Safety is our watchword but the user must comply with the above rules in his own interest. We would be pleased to advise on the safe use of our products.

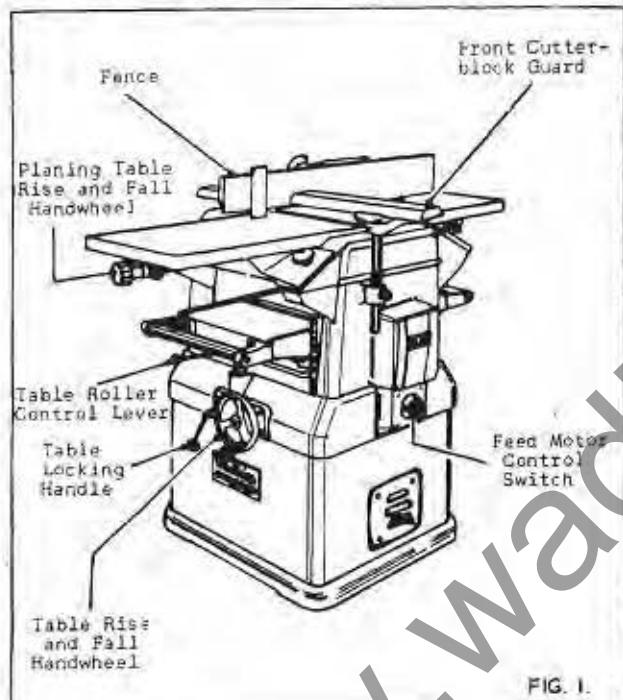


SAFETY

- 1. Read Instruction Book.**
- 2. Securely Lock Cutters.**
- 3. Set Guards Correctly.**
- 4. Select Correct Speed.**
- 5. Use Feeding Devices Where Possible.**
- 6. Refer To HSW Booklet No.41. (in UK) For Safety In The Use Of Woodworking Machinery.**

SPECIFICATION

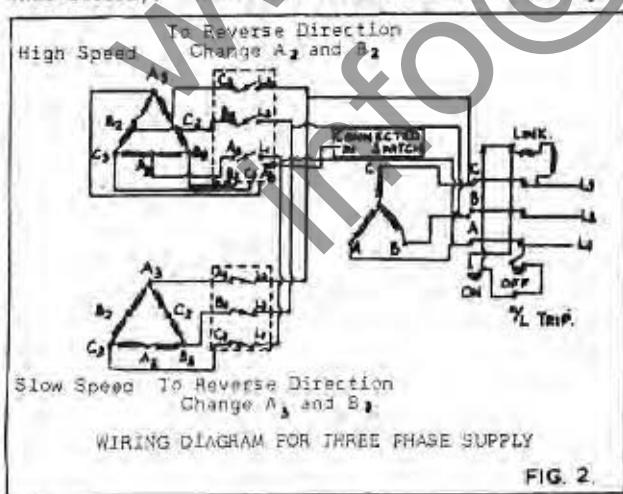
Thicknessing Capacity ...	... ...	... ...	123/8" wide x 7" deep	310 x 180mm
Length of thicknessing table...	... ...	... ...	26"	710mm
Overall length of surfacer tables ...	... ...	... ...	423/4"	1,075mm
Width of surfacer tables ...	... ...	... ...	123/4"	310mm
Rise and fall surfacer tables...	... ...	... ...	3"	15mm
Maximum depth of rebate...	... ...	... ...	13/8"	12mm
Height of surfacer table from floor...	... ...	... ...	343/4"	880mm
Length of fence ...	... ...	... ...	30"	760mm
Height of fence ...	... ...	... ...	43/4"	110mm
Fence cant up to...	... ...	... ...	45°	45°
Cutting circle diameter of cutterblock	... ...	... ...	4"	100mm
Speed of cutterblock ...	... ...	... ...	5,000 r.p.m.	5,000 r.p.m.
Number of cutters. Standard...	... ...	... ...	2	2
Optional extra...	... ...	... ...	3	3
Horse Power of cutterblock motor ...	... ...	... ...	3,000 r.p.m.	3,000 r.p.m.
Syn. speed of cutterblock motor, 50 cycles.	... ...	... ...	3,600 r.p.m.	3,600 r.p.m.
60 cycles.	... ...	... ...	2"	50mm
Diameter of feed rollers. ...	... ...	... ...	15 and 30 ft.	4.5 and 9m.
Feed speed per minute.	3 phase...	... ...	22ft.	6.7m.
1 phase...	... ...	... ...	42" x 48"	1065 x 1220mm.
Maximum floor space ...	... ...	... ...	740 lb.	335 kg.
Net weight...	... ...	... ...



INSTALLATION

Remove protective coating from bright parts by applying a cloth soaked in paraffin, turpentine or some other solvent.

When the machine is cased for export the fence, outer table rollers, rise and fall handwheel and front cutterblock guard are removed and packed individually. Remove and assemble as shown in Fig. 1.

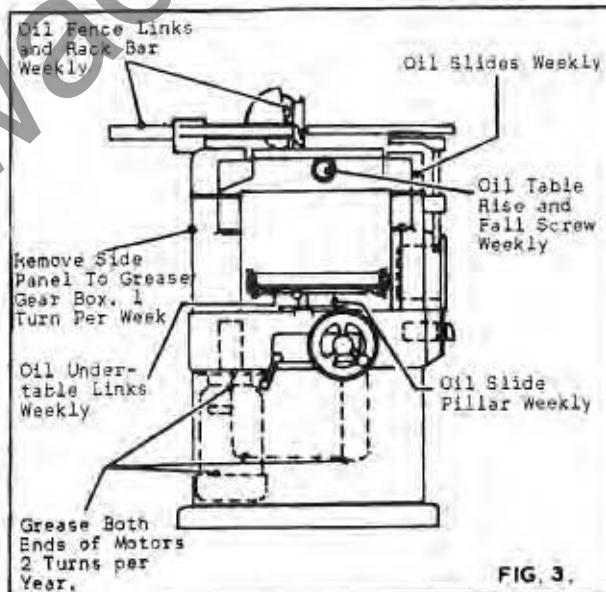


WIRING DETAILS

The motor and control gear have been wired in before despatch. All that is required is to connect the power supply to the starter.

Points to note when connecting to power supply:

- Check the voltage, phase and frequency correspond to those on the motor plate also the correct coils and heaters are fitted to the starter.
 - It is important that the correct cable is used to give the correct voltage to the starter as running on low voltage will damage the motor.
 - Check the main line fuses are of the correct capacity.
 - Connect the line leads to the appropriate terminals. See Fig. 2 for 3 phase supply.
 - Check all connections are sound.
 - Check the rotation of both motors for the correct direction. If these are incorrect reverse any two of the line lead connections.
- For single phase supply refer to booklet supplied with starter for wiring details.



LUBRICATION

It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting. The slideways should also be kept clear of any chippings for ease of operation.

TYPE OF OIL RECOMMENDED

TYPE OF GREASE RECOMMENDED

POWER EM.125

SHELL ALVANIA 3.

All adjustments and alignments listed below have been carefully set and checked and the whole machine thoroughly tested before despatch from the works. During the first few weeks of operation and at regular intervals afterwards certain items such as belt tension and chain tension should be checked carefully. When the adjustments are necessary proceed in accordance with the relative instructions given.

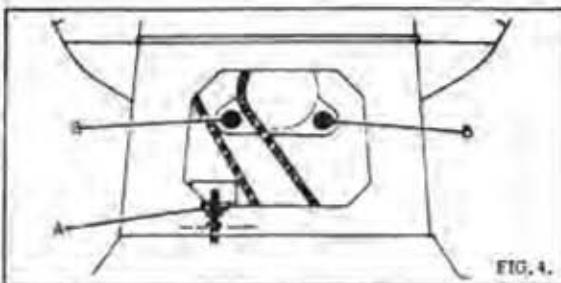


FIG. 4.

BELT TENSION

The CutterBlock drive is by two vee belts from a 3HP motor. Tension is effected to these belts by an adjustable jockey pulley. To adjust, remove sheet steel panel from drive side of the machine and turn the knurled nut "A" in Fig. 4 in the direction indicated until required tension is reached. Replace panel before operating machine.

FEED CHAIN TENSION

Drive to feed rollers is by roller chain from a worm gearbox directly coupled to the feed motor. Feed motor on 3 phase machines is 2 speed giving feed speeds of 15 and 30 ft/min (4.5 and 9 m/min) and on single phase, single speed giving a feed speed of 22 ft/min (6.7 m/min) only.

The feed chain must be run with sufficient slack to allow the front or serrated feed roller to freely lift 1" from rest position. To adjust, remove drive side panel, loosen the two nuts "B" in Fig. 4 and move idler sprocket as required. Check feed roller lift as above, tighten nuts and replace panel.

TABLE ROLLERS

The anti-friction table rollers or bed rollers revolve on sealed for life ball bearings which require no lubrication. On machines prior to serial No. 53710 rollers were individually adjusted by set screws under the bearing blocks and should be adjusted to suit the relevant working conditions. On all machines after this number the rollers are automatically adjusted in relation to the table surface by a single operating lever at the infeed end of the table.

A calibrated scale (0-3) above the lever indicates the relevant positions, a guide to which is as follows:

At Min 0

Rollers are level with table surface and only very fine cuts on selected pre-machined timber are generally possible in this position. Feed permitting, however, very accurate step free planing can be carried out in this position.

Positions 1 and 2

Are the normal working positions for general use, combining good feeding with first class results.

Position 3 maximum

This is for use with wet, twisted or roughly sawn material where feeding is most important feature.

In all cases the lowest position consistent with good and regular feeding should be used as this will give the best possible results. Should the table rollers be removed for any reason care must be taken to replace them exactly as before otherwise the settings will be disturbed.

It must be emphasized that a really good surface finish from a thicknessing machine is only possible when the face of the timber resting on the machine table is flat and has a reasonable finish. Wherever practicable this face should be pre-machined on a overhead jointer or surfacer to remove twist and other irregularities.

FEED ROLLER AND PRESSURE BAR SETTING

These are pre-set at works in accordance with Fig. 5 and vertical adjustment relative to the cutterblock is neither possible nor necessary provided the cutters are correctly set with the special setting gauge supplied with each machine. Should replacement feed rollers or pressure bars be fitted at any time the settings should be very carefully checked with Fig. 5.

Some slight advantage in finish or feeding may on occasions be obtained by increasing or decreasing the tension of the pressure bar or feed roller springs. Spring pressures should be set by trial and error to give satisfactory feed.

The springs should never be compressed to a point where the feed rollers and pressure bars cannot lift sufficient to allow the maximum cut to be taken.

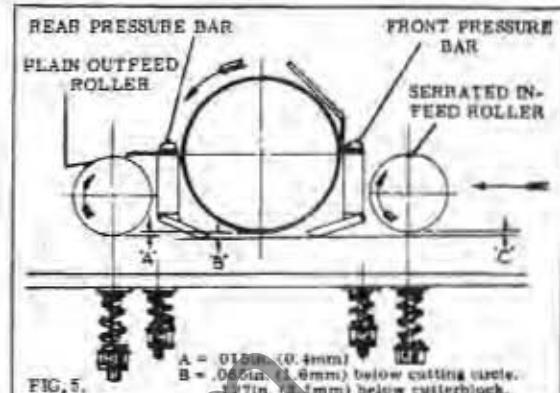


FIG. 5.

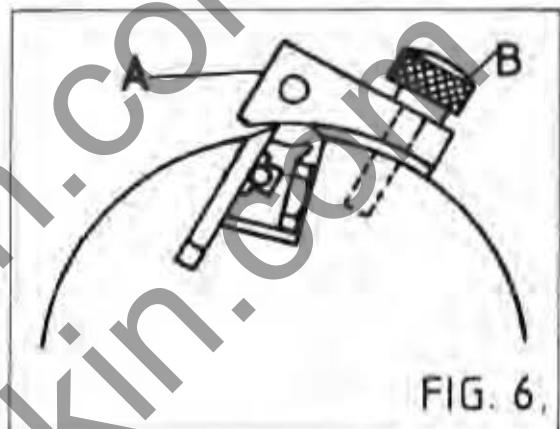


FIG. 6.

CUTTER SETTING

The knife is held in the cutterblock by a wedge, into which is fitted spring loaded balls, these balls hold the knife finger tight whilst the 5-M12 hexagon head screws are loose. This allows both hands to be free to adjust the blade and ensure that it will not slip back during setting or move whilst the wedge screws are being tightened up. Should any other method of cutter setting be employed the amount of cutter projection must correspond exactly with that given by the setting gauge supplied and failure to observe this instruction will result in bad feeding and poor finish.

To remove the knives and re-set with the 'BURSGREEN' knife setting gauge, proceed as follows:-

1. Move the fence to rear of the table and lower both planing tables to their lowest position.
2. Turn the cutterblock to approximately the position shown in FIG. 6 and loosen the 5-M12 hexagon head screws, carefully remove knife from cutterblock.

NOTE: When grinding it is important that knives are ground dead straight and balanced in pairs or sets.

An efficient re-grinding service is available, charges are moderate and service prompt. To avail yourself of this service, return knives to BURSGREEN (DURHAM), FENCE HOUSES, TYNE & WEAR.

3. To re-set the knives the cutterblock should be in the approximate position as shown in FIG. 6. Place knife in between wedge and cutterblock with the blade drawn forward slightly.

4. Carefully secure the knife setting device 'A' FIG. 6 to the cutterblock with the two knurled locking screws 'B' as shown in FIG. 6.

5. Whilst turning these locking screws 'B', FIG. 6, knife will be lowered to correct setting which is reached when knurled screws are locked in position and knife just touches knife setting device.

6. When the knife is correctly set tighten 5-M12 hexagon head screws, remove knife setting device then securely lock the 5-M12 hexagon head screws.

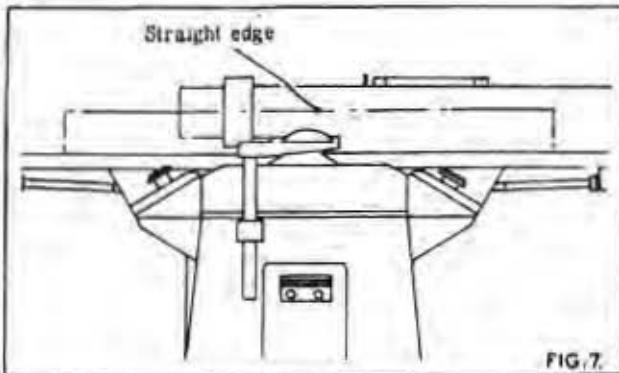


FIG. 7.

7. Rotate cutterblock until the next knife is in position and repeat the procedure until all the knives have been set.
8. When changing knives it is advisable to check that all the locking screws are adequately lubricated and quite free. Periodically examine for damage or cracks. Any doubtful screws should be replaced and all screws well lubricated with 'Molykote' or similar oil before replacing.
9. To check the setting of the knives, raise the back planing or $\frac{1}{16}$ in. above the outer surface of the cutterblock. Place a straight edge on the table as shown in FIG. 7 and rotate the cutterblock by hand until the knife just touches the straight. Repeat this check in various positions over the width of the table to ensure the knife is parallel. Repeat this procedure for all knives.

Keep the cutters sharp when in position by using a fine grade oil stone dipped in paraffin. Allow the stone to rest lightly and flat on the bevel and pass over the cutter with a rotating action a few times. Give about two strokes on the full length of each knife on the face side to remove all burrs from the cutting edge.

Do not allow a heel greater than $\frac{1}{32}$ in wide on the bevel before removing and regrinding. When the heel becomes too wide the knives may heat up or have a hammering effect on the wood and more than normal power will be required to run the cutterblock.

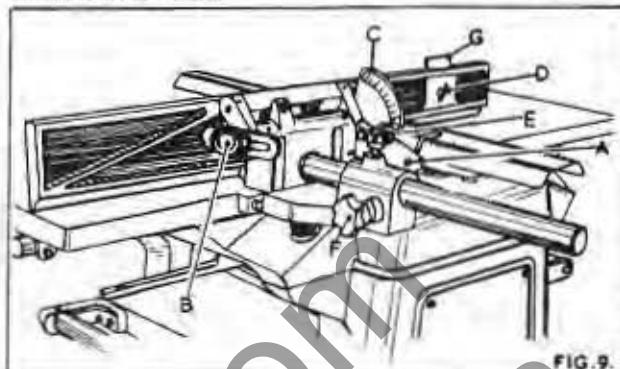


FIG. 9.

FENCE ADJUSTMENTS

The fence cant by means of a lever "A" in FIG. 9. The angle is shown on the graduated scale "C".

To cant the fence loosen handwheel "B" and lift handle "A" until the required angle is shown on scale "C", then re-lock handwheel "B".

The fence front plate is fitted with an insert "G" that is adjustable depending on the depth of cut being taken. To adjust loosen wingnut "D" and move the insert until it touches rear table then re-lock wingnut "D". The insert should be loosened at all times before lowering the table.

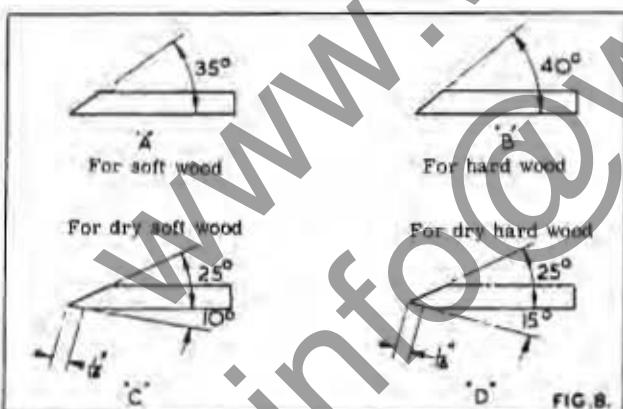
The fence is adjustable across the table by the handwheel "F". To move across the table loosen handwheel "E" and turn handwheel "F" until required position is reached then relock handwheel "E".

The fence should be locked in both positions at all times when the machine is in operation.

The fence has positive stops at 90° and 45° . These are accurately set before despatch.

To check the undermentioned procedure should be followed:

1. Move the fence towards the rear of the table as shown in FIG. 10.
2. Check the 90° positive stop by means of a steel square as in FIG. 10. If adjustment is necessary adjust the hexagon head bolts "A" until fence is at right angles to the table when hard up against the stops and the handwheel "B" in FIG. 9 locked.
3. Check the 45° positive stop by means of an adjustable square. If adjustment is necessary adjust the socket head grub screw "B" in FIG. 10 until the fence is 45° to the table when hard up against the stop and the handwheel "B" in FIG. 9 locked.
4. If adjustment is made to the positive stops check the graduated scale for accuracy. This is secured to the support bar by a socket head grub screw and to adjust, loosen the grub screw and accurately position the scale to the pointer.



CUTTER CARE

The cutters supplied are 12 in. (310mm) long x $1\frac{1}{2}$ in. (32mm) wide x $1/8$ in. (3mm) thick in balanced sets. They should be kept in balanced sets by ensuring that the cutters have equal dimensions after grinding and that the cutter edge is straight and parallel to the back edge.

For general work knife angles for soft and hard woods are recommended as in FIG. 8 (a) and (b).

When a very fine finish is required in dry soft and hard woods a slight front bevel is given as in FIG. 8 (c) and (d). For wet or green timber the cutting bevel may be decreased five degrees, but the front bevel should not be given.

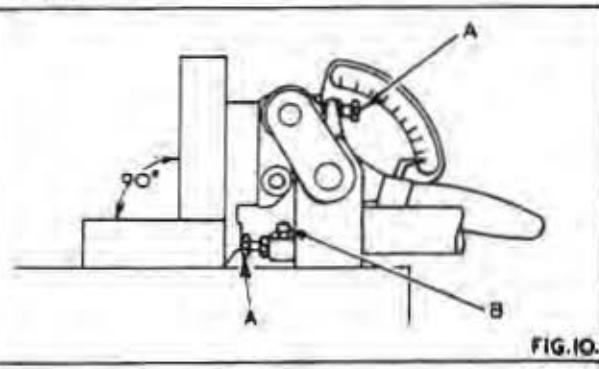


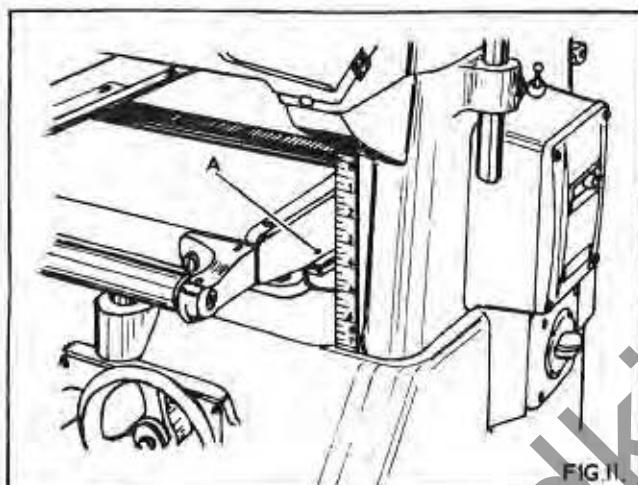
FIG. 10.

SETTING THICKNESSING TABLE PARALLEL TO CUTTERBLOCK

The machine table is accurately set parallel to cutterblock before despatch but should it be disturbed for any reason it must be carefully checked and made parallel to the cutterblock, if necessary, by the following procedure.

1. Feed a short length of timber approximately 2" square (50 mm) x 18" long (460 mm) through the machine to one side of the thicknessing table.
2. Without adjustment to the height of the table feed the timber through the machine again on the opposite side of the table to that in item 1.
3. If a cut is taken or it does not touch the wood adjust the fine thread adjusters on the under-side of the table to suit and when set tighten all screws.

As the knife setting device sets the knives parallel to the cutterblock it is vitally important that the table is set dead parallel to the cutterblock.



THICKNESSING RULE

The pointer on the machine table is pre-set before despatch. Should it be disturbed, feed a piece of timber through the machine and measure the thickness accurately. Check that the reading given by the pointer corresponds to the thickness of timber machined. Should adjustment be necessary slacken the screw "A" in Fig. 11 and set pointer to the correct thickness.

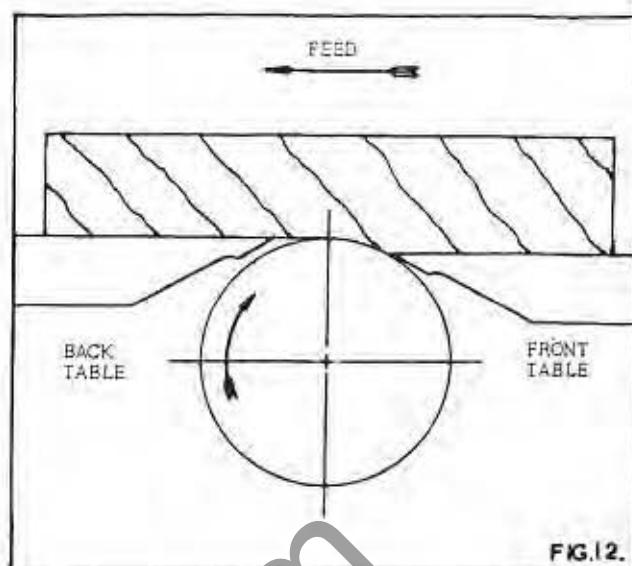
GENERAL HINTS

For Thicknessing

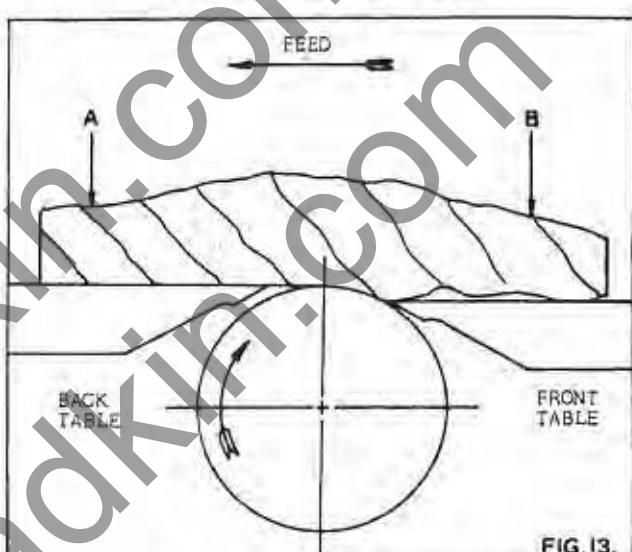
1. When thicknessing long lengths of timber always support after the machine table, otherwise a step will appear on either or both ends. See Fig. 15 for suggested support which can be easily made.
 2. When a smooth finish is required use the slow feed speed. For roughing when the finish is not important use the fast feed speed.
 3. For the best results always feed the timber to cut with the grain.
 4. Should the timber stick when thicknessing two probable causes are given below:
- (a) The table rollers are set too low in the table.
 - (b) The spring pressure is too great on the pressure bars and too little on the feed rollers.

For Surface Planing

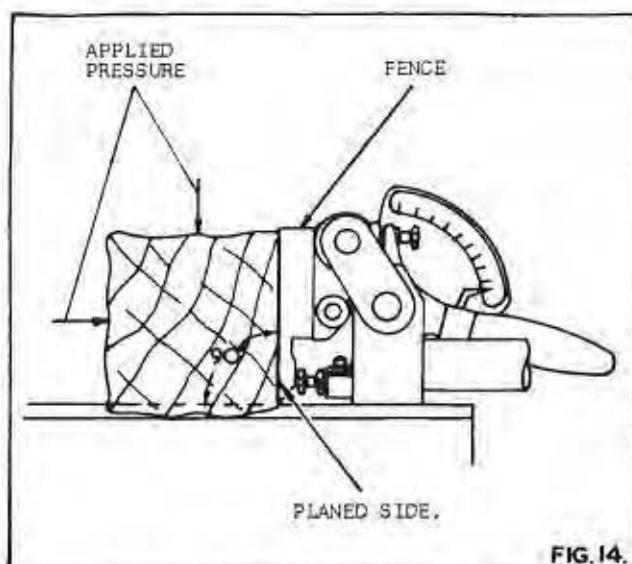
1. To obtain the best surface finish always check the direction of the grain, which should run with the cutter as in Fig. 12.
2. To obtain a perfectly flat surface especially with warped stock always put maximum pressure on the back table at "A" in Fig. 13 and as little as possible on the front table at "B".
3. Greater pressure will be required when surfacing bad grained timber otherwise chattering will take place resulting in a coarse finish near each knot.
4. When planing four sides of timber square turn the timber anti-clockwise after each cut so that there will always be a machined face next to the fence as in Fig. 14. The fence locates accurately at 90°.



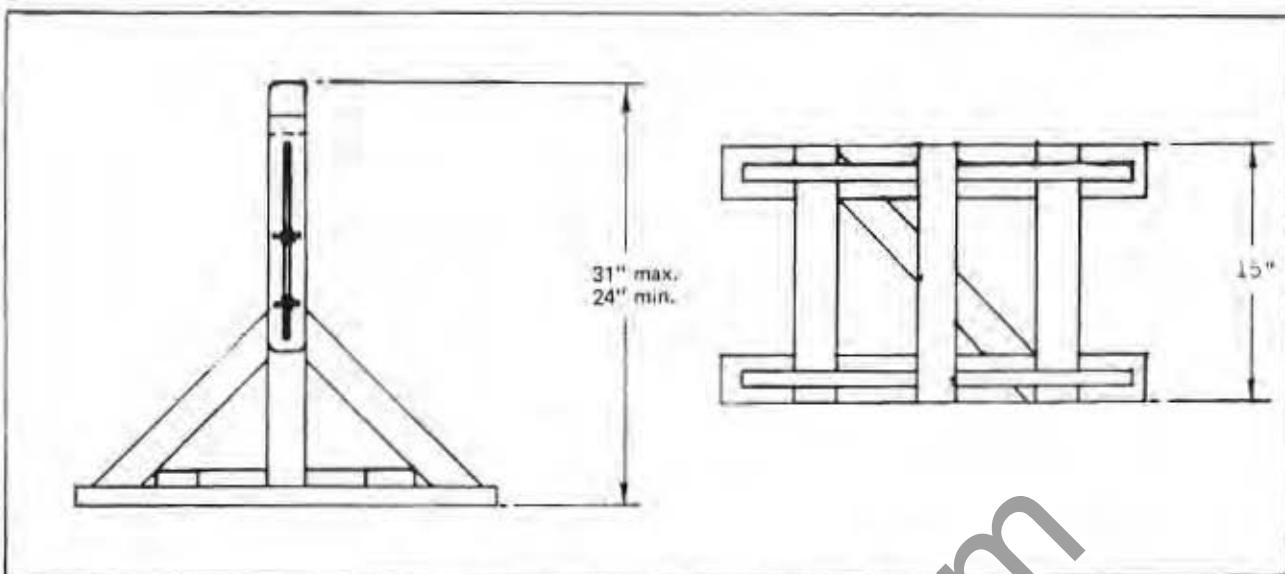
CORRECT RUN OF GRAIN



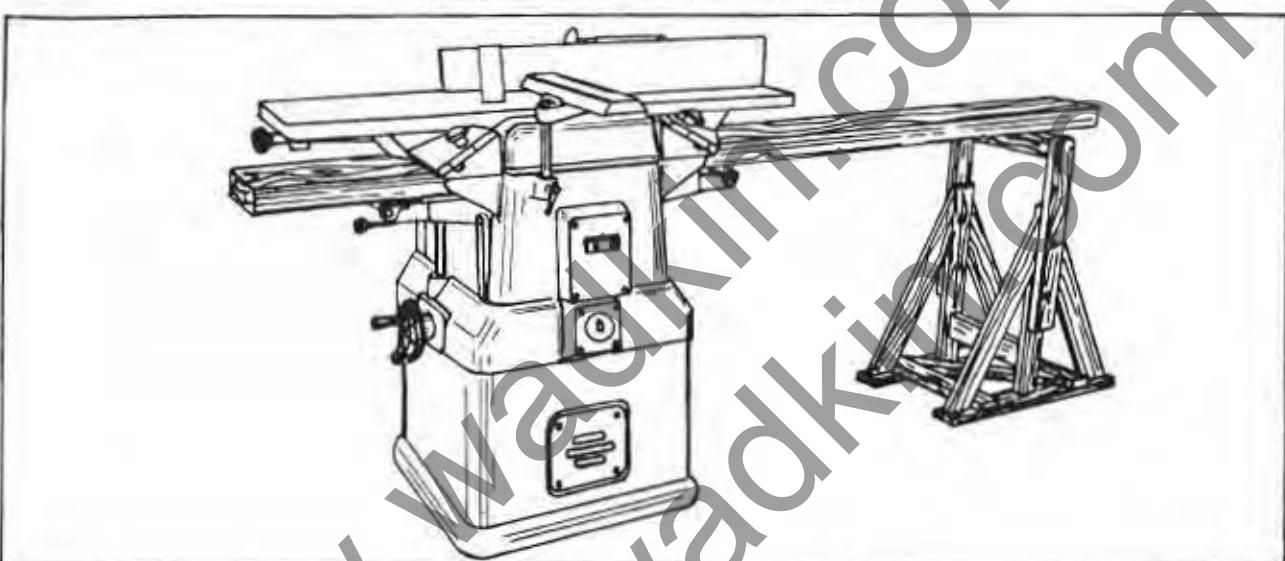
FEEDING WARPED TIMBER



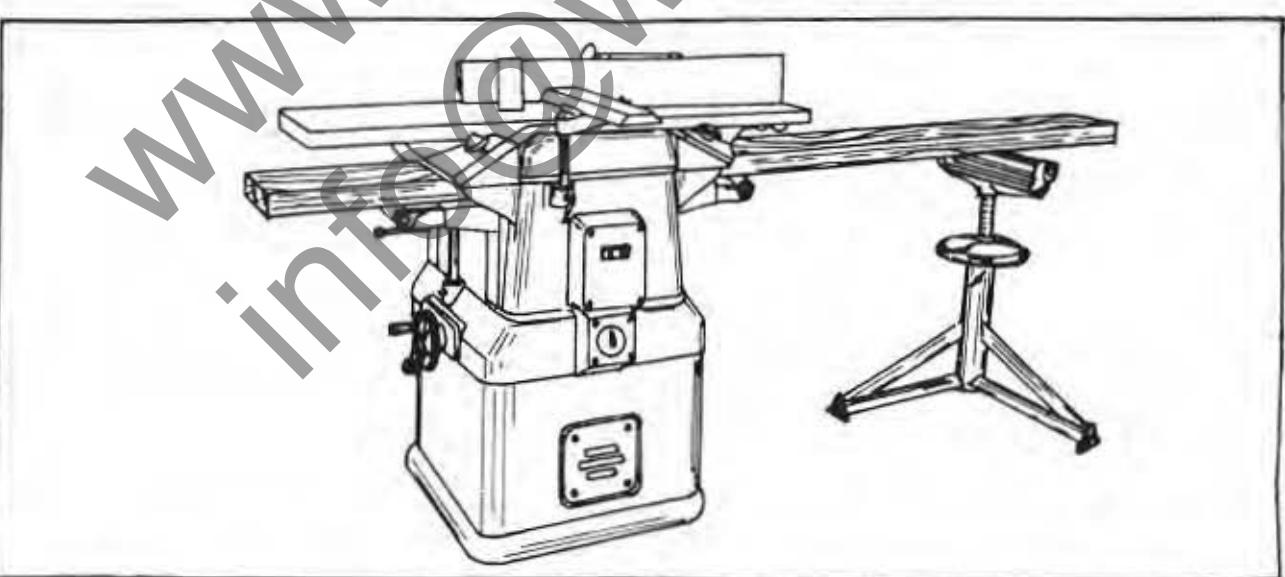
WORKING WITH FENCE



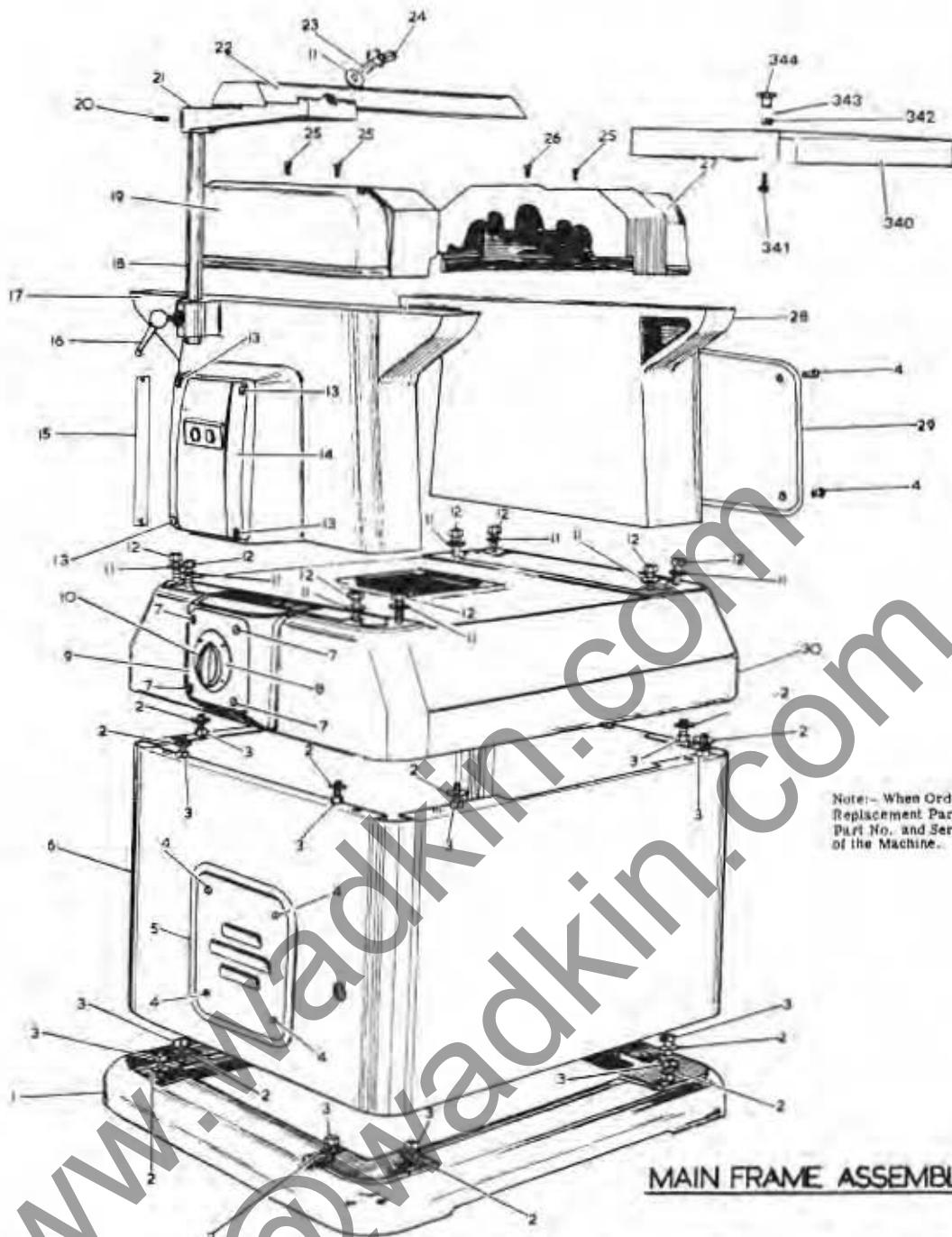
OVERALL DIMENSIONS OF SUGGESTED SUPPORT



SKETCH SHOWING WOOD SUPPORT IN POSITION



SKETCH SHOWING WADKIN/BURSGREEN ROLLER STAND TYPE VW IN POSITION.



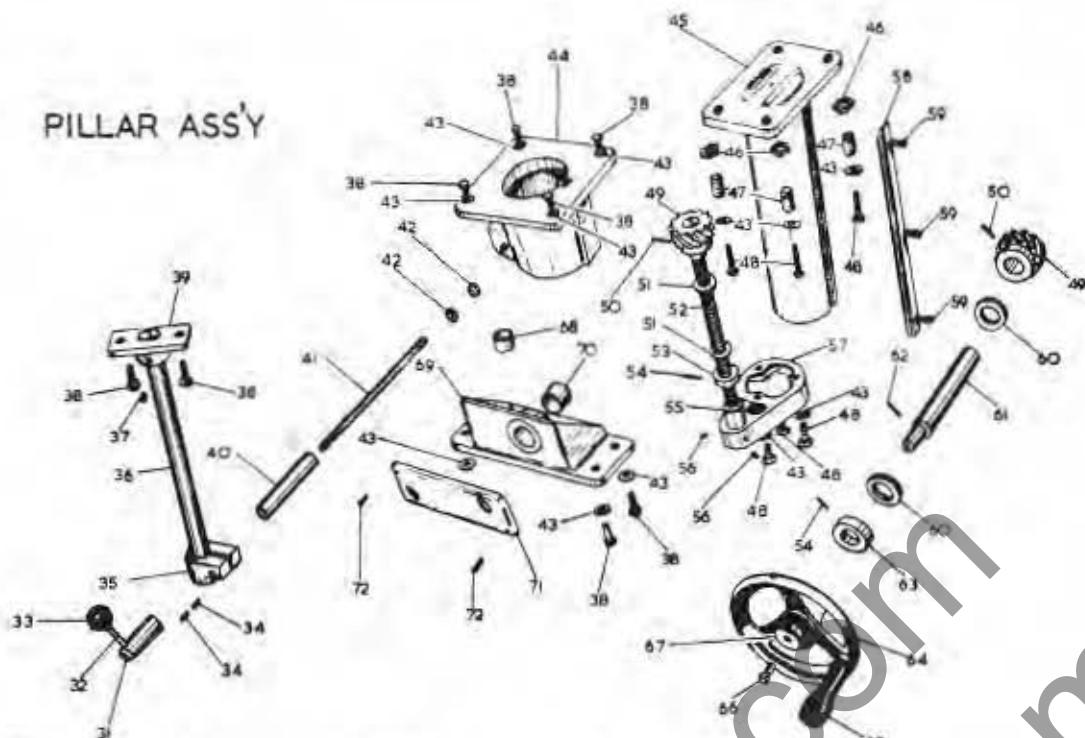
Note:- When Ordering
Replacement Parts Quote
Part No. and Serial No.
of the Machine.

MAIN FRAME ASSEMBLY.

Ref. No.	Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
1	D1031M/5	1	Foot for base	15	B-1031/25	1	Thicknessing table rule (English)
2		16	10 washer	16	B-1031/65	1	Thicknessing table rule (Metric)
3		16	M10 x 20 long hexagon head bolt	17	B-S-1-B	1	3/8" whit. ball lever screw
4		16	M6 x 10 long round head screw	17	D-1032M/18	1	Rebate side frame
5	B-1031/53	2	Panel for base	18	A-1029/20	1	Front cutterblock guard adjustment bar
6	E-1031M/T	1	Base (Standard)	18	D-1032/T	1	Rebate side guard
7	C-1031M/97	1	Base (Single phase)	20	C-1032M/6	1	M8 x 12 long socket head grub screw
8	B-1031/67	1	M8 x 20 long countersunk head screw	21	C-1032M/18	1	Front cutterblock guard bracket
9		1	Escutcheon plate for rotary switch	22	A-1032/17	1	Front cutterblock guard
10	A-1031/P3	1	(Standard)	23	A-1029M/51	1	Cutterblock guard locking pin
11		1	Escutcheon plate for rotary switch	24		1	M10 wing nut
12	B-1031M/16	1	(Single phase)	25		1	M8 x 20 long countersunk head screw
13	SR.1210.BG/74	1	Faceplate for rotary switch	26		1	M8 x 25 long countersunk head screw
14		1	Sector 2 speed rotary switch(3 phase, 50 cycle)	27	D-1032/20	1	Drive side guard
15	SR.123	1	SR.123	28	D-1032M/18	1	Drive side frame
16	SR.1316.AR.65	1	Sector 2 speed rotary switch (3 phase, 60 cycle)	29	B-1031/52	1	Drive side frame panel
17		9	10 washer	30	E-1031M/1	1	Main frame
18		8	M10 x 25 long hexagon head bolt	340	D-1032/43	1	Tunnel guard
19		4	M6 x 25 long cheese head screw	341		1	M8 x 40 long hexagon head bolt
20	84ADS/FO	1	MEM starter	342		1	M8 nut
			NOTE: 1 phase and 60 cycle supplies have separate push button controls for full details refer to manufacturer.	343		1	8 washer
				344		1	17" dia. plastic handwheel M8

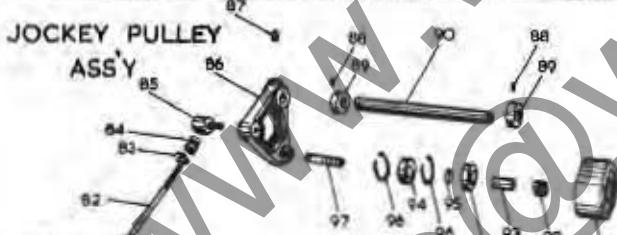
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PILLAR ASS'Y



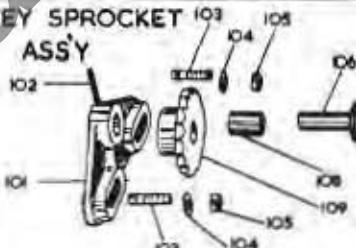
PART NO.	NO. OFF	DESCRIPTION	REF NO.	PART NO.	NO. OFF
31 A-1031M/44	1	Undetectable support locking handle	53	A-1031M/44	1
32 A-1031M/141	1	Table rise and fall locking handle	54		2
33 Patt. No. 39	1	3" dia. plastic ball, M10	55	A-1031/58	1
34	2	M6 x 12 long socket head grub screw	56		2
35 A-1031/M/83	1	Undetectable support bar clamp	57	B-1031M/15	1
36 A-1031/97	1	Undetectable support bar	58	A-1031/44	1
37	1	M10 x 10 long socket head grub screw	59		1
38	10	M10 x 25 long hexagon head bolt	60	EW1	2
39 A-1031/M/89	1	Undetectable support bar bracket	61	A-1031M/41	1
40 A-1031/86	1	Undetectable support locking nut	62		1
41 A-1031M/85	1	Undetectable support locking stud	63	A-1031M/214	1
42	2	M12 locknut	64	B-1036/8	1
43	15	10 washer	65	Patt. No. 4	1
44 D-1031M/10	1	Pillar slide bracket	66		1
45 D-1031M/8	1	Pillar	67	A-1031/70	1
46 A-1031/51	4	3" simplex lockout	68		1
47 A-1031/35	4	Thickening table adjusting screw	69	C-1031/11	1
48	7	M10 x 45 long hexagon head bolt	70		1
49 CK.187	2	Spiral gear for rise and fall	71	E-1031/17	1
50	2	3" dia x 30 long grooverlock spring dowel	72		1
51 EW1"	2	Hoffman thrust race			
52 B-1031/42	1	Thickening table rise and fall screw			

JOCKEY PULLEY



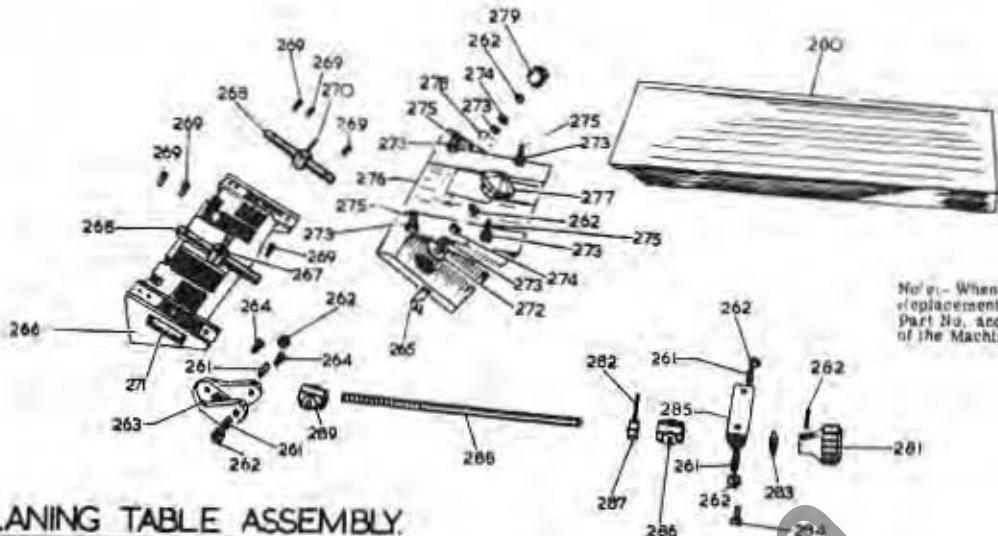
REF NO	PART NO	NO OF Pcs	DESCRIPTION
51	A-1002/87	1	Jockey pulley advertising mat
52	A-1031/48	1	Belt tension screw
53		1	10-washer
54	A-1024/21	1	Spring for belt tensioner
55	A-1031/40	1	Belt tensioner pivot nut
56	C-1031M/9	1	Lever for belt tensioner
57		1	1 1/8" gas x 1" long socket head grub
58		2	M6 x 12 long socket head grub screws
59	A-1031M/58	2	Jockey pulley pivot shaft collar
60	A-1031/47	2	Jivot pin for belt tension lever
61	A-1031/20	1	Belt tension pulley
62		1	M32 aerotight nut
63	A-1031/48	1	Bearing bush for belt tension pulley
64	S203F	2	Fischer single seal bearings
65	A-1031/78	1	Jockey pulley distance piece
66	00008-158	1	"square" 40mm internal circip
67		1	M12 x 40 hex nut

JOCKEY SPROCKET



<u>REF NO.</u>	<u>PART NO.</u>	<u>SC OFF</u>	<u>DESCRIPTION</u>
101	C-1031/6	1	Bracket for jockey sprocket
102		1	5 dia x 40 long grooverlock spring down
103		2	M10 x 40 long stud
104		2	10 washer
105		2	M10 nut
106	A-1031/131	1	Jockey sprocket bearing pin
# 108		1	5/8" bore x 7 1/8" O/D 1,1/8" long oilite bush
109	A-1031/59	1	Jockey sprocket (19 teeth)

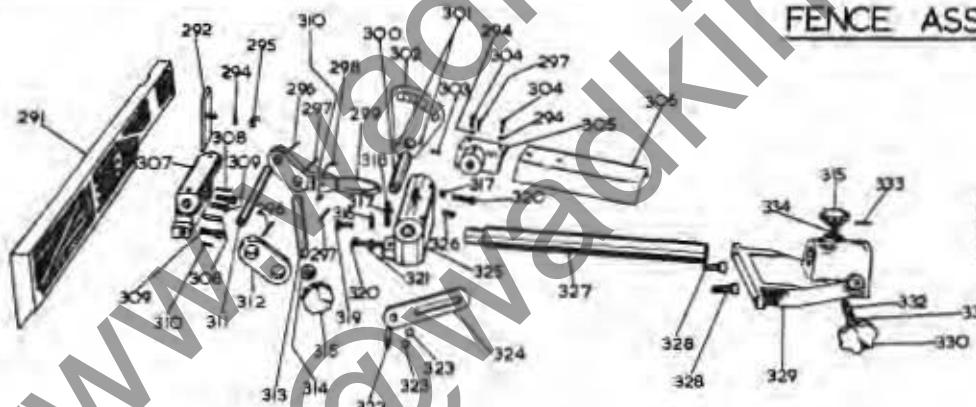
NOTE:- WHEN ORDERING REPLACEMENT PARTS QUOTE PART NO.
AND SERIAL NO. OF THE MACHINE.



PLANING TABLE ASSEMBLY.

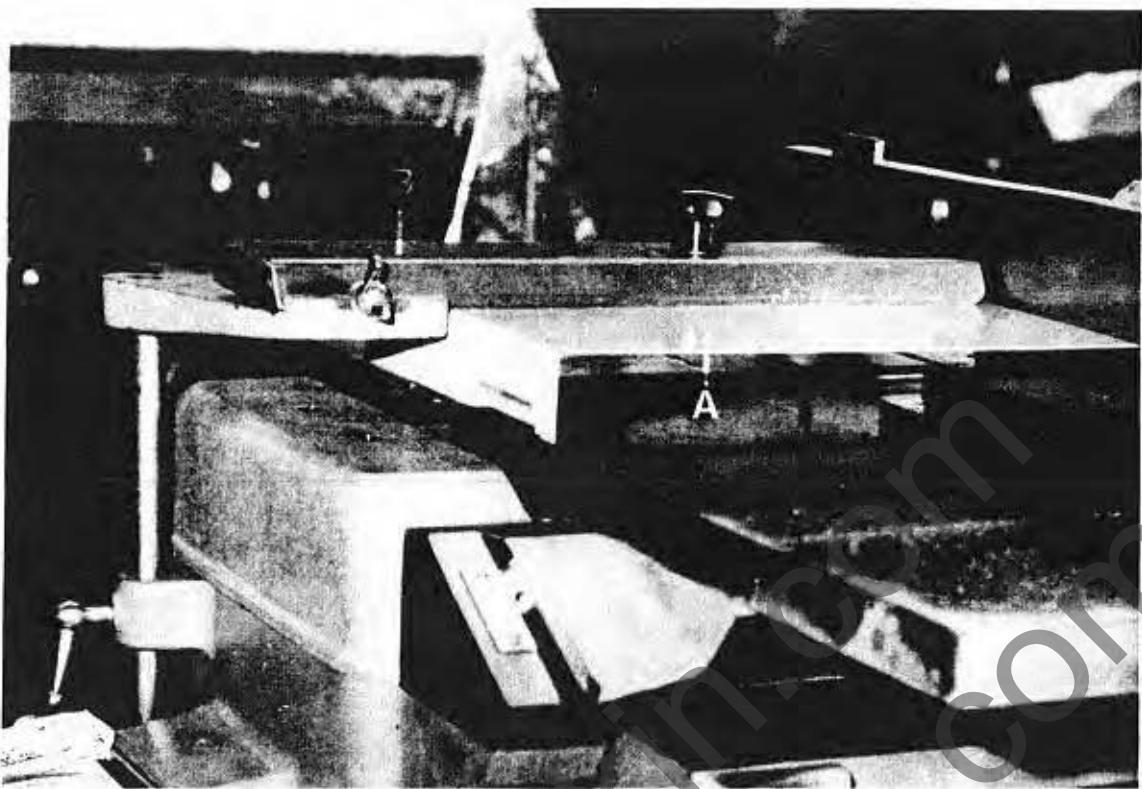
Ref. No.	Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
261		8	M10 x 30 long cone point socket head grub screw	275		4	M10 x 25 long hexagon head bolt
262		12	M10 locknut	276	D-1032/24	2	Planing table intermediate slide bracket
263	A-1032/34	2	Planing table rise and fall nut pivot bracket	277	A-1032M/10	2	Rebate side locking handwheel
264		4	M8 x 20 long countersunk socket head screw	278	A-1032/22	2	Drive side table locking washer
265	A-1032/37	2	Table rise and fall rule indicator	279	A-1032M/11	2	Drive side table lock cover
266	D-1032M/2	2	Planing table slide bracket	280	C-1032M/23	2	Planing table
267	A-1032M/9	2	Rebate side planing table lock screw	281	Patt. No. 24	2	2" dia. plastic handwheel 12 bore
268	A-1032M/8	4	Planing table slide rod	282		4	3 dia. x 25 long groverlok spring dowel
269		12	M6 x 18 long socket head cap screw	283		2	12 washer
270	A-1032M/9	2	Drive side planing table lock screw	284		4	M8 x 20 long hexagon head bolt
271	A-1032/36 1 ea. hand	Table rise and fall rule		285	B-1032M/26	2	Planing table handwheel pivot bracket
272	A-1032/32	2	Rebate side table locking washer	286	A-1032/25	2	Planing table rise and fall screw pivot nut
273		12	10 spring washer	287	A-1032/29	2	1" ream
274		4	M10 nut	288	A-1032M/28	2	Collar for planing table rise and fall screw
				289	A-1032/25	2	Planing table rise and fall screw
							Planing table rise and fall nut, 1" whit.

FENCE ASSEMBLY.

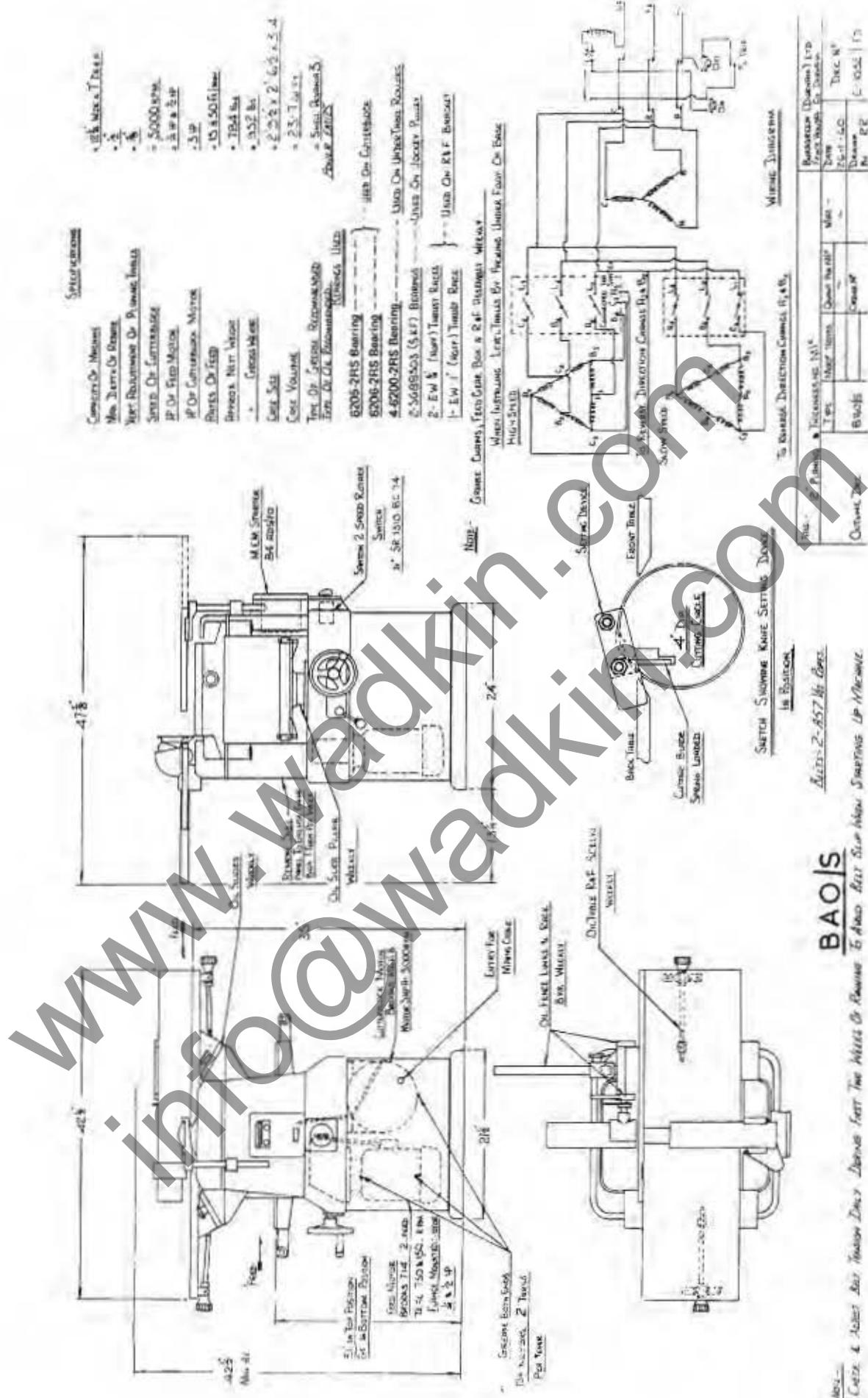


Application	APPROVED LUBRICANTS				
	Castrol	B.P.	Shell	Esso	Texaco/Caltex
Worm Boxes	ZN220	Energol CS320	Vitreo 320	Spartan EP220	Regal Oil 320
General Lubrication	Magna 68	Energol HP68	Vitreo 68	Nuray	Ursa Oil P68
Pneumatic Lubricators	Hyspin AWS32	Energol HL32	Tellus 37	Nuto H32	Rando Oil HD32
Grease	Spheerol AP3	Energrease 1.53	Alvania R3	Beacon 3	Regal Starfak Premium 3
Brake Cables	Brake Cable grease	Energrease L21M	Alvania R3	Esso Multi-purpose grease	L6

TUNNEL GUARD



When thicknessing ensure tunnel guard 'A' is fitted to bridge guard 'B' with hexagon bolt, nut, washer and handwheel provided (page 7).



Case

Min-2-8574 Case

BAO/S

Failure to comply with instructions in this book may invalidate the guarantee

— FUSE LIST —

Voltage	Phase	KW	SWG Tinned Copper Wire	Amps	Direct on Line
220	3	2.37	16	62	
380	3	2.37	18	39	
415	3	2.37	19	35	
240	1	2.37	15	84	

USA/CANADA

Voltage	Phase	HP	Cartridge Fuse Amps
220/230	3	3	67
440	3	3	33
575	3	3	20

BE CAREFUL

**THIS MACHINE CAN BE DANGEROUS
IF IMPROPERLY USED**

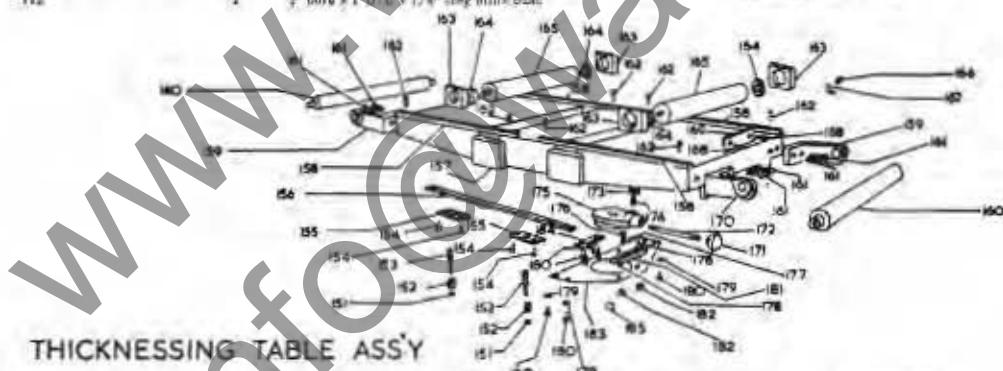
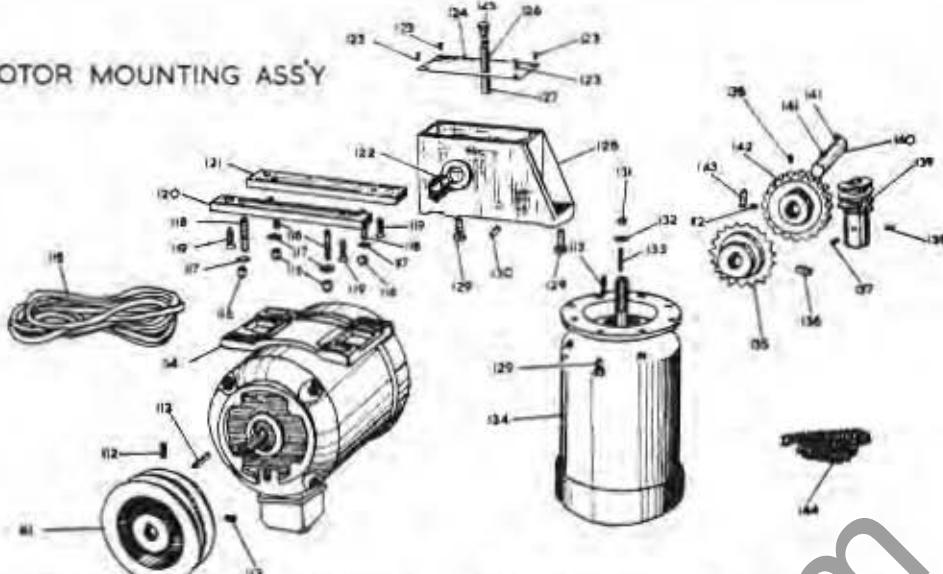
Always Use Guards

Keep Clear Until Rotation Has Ceased

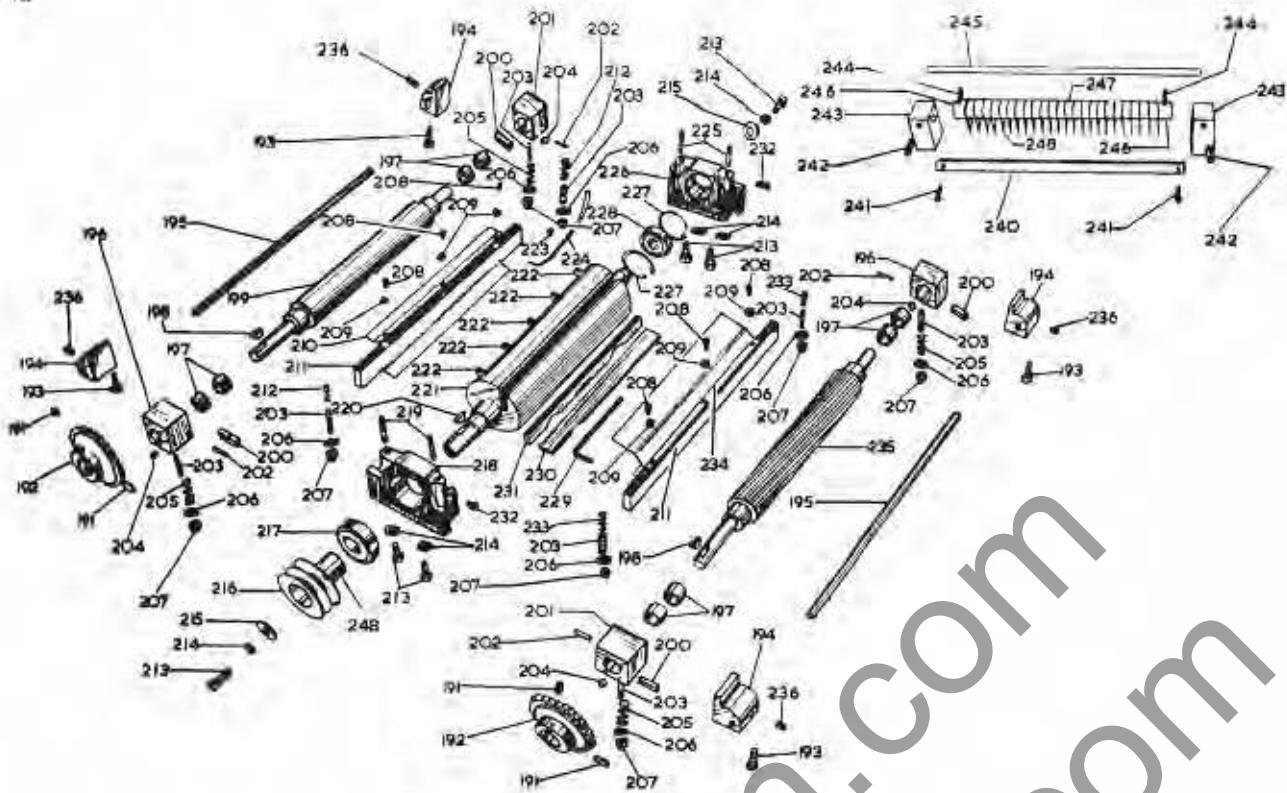
**Always Operate As Instructed And
In Accordance With Good Practice**

Read Instruction Manual

MOTOR MOUNTING ASS'Y



THICKNESSING TABLE ASS'Y



CUTTERBLOCK ASS'Y

Ref. No.	Part No.	No. Off	Description	Ref. No.	Part No.	No. Off	Description
191		4	M10 x 20 long socket head grub screw	220	No. 155	1	5/16" wide x 1" woodruff key
192	A-1031M/61	2	Feed roller sprocket 25 teeth	221	C-1031M/72A	1	Cutterblock
193		4	M10 x 20 long hexagon head bolt	222		10	M12 x 30 long dog pointed socket head grub screw
194	A-1031M/23	2	Tie bar block	223		2	2 dia x 12 long fluted rivet
195	A-1031/30	2	Side frame tie bar	224	A-S-41	2	Cutterblock spring
196	B-1031M/28B	2	Feed roller bearing block	225	A1031M/144	2	Stud for rebate side guard
197		8	7/8" bore x 1 1/8" O/D x 4" long alum bush	226	B-1031M/14	1	Rebate side bearing housing
198	No. 150	2	1/2" wide x 1" woodruff key	227	5000-206	2	Trunnion internal circlip
199	C-1031/189	1	Feed roller (plain)	228	K06-01-207	1	6205-2RS bearing rebate side
200	3" long	4	1/2" sq. black "Tesanol" type 770	229		1	6 across flats, long arm hexagon wrench
201	B-1031M/28A	2	Feed roller bearing block	230	B-S-55	2	Cutterblock knife (12 1/4" long)
202		4	6 dia x 25 long fluted dowel	231	D-1810/110	2	Strip for cutterblock
203	A1031M/142	4	Stud for feed roller block	232		2	M6 x 12 long cheese head screw
204	A-1031/39	4	Feed roller stop	233	A-1031/50	2	Pressure bar spring
205	A-1031/49	4	Feed roller spring	234	A-1031/32	1	Baffle plate
206		8	8 washer	235	C-1031/27	1	Feed roller (fluted)
207		8	M8 aerotight nut	236		4	M10 x 10 long socket head grub screw
208		6	M6 x 12 long round head screw	238	A-1031/164	2	Knife setting device blocks
209		6	6 spring Washer	239	A-1031M/165	1	Knife setting device tie bar
210	A-1031/33	1	Scraper plate	240	A-1031/76	1	Stop bar
211	C-1031M/29	2	Pressure bar	241		2	M6 x 12 long countersunk head screw
212	A-1031/50	2	Pressure bar spring	242		2	M10 x 12 long socket head grub screw
213		6	M10 x 25 long hexagon head bolt	243	B-1031M/74	2	Kick back finger tie bar block
214		6	10 spring washer	244		2	M6 x 10 long socket head grub screw
215	A-1032/22	2	Cutterblock washer	245	B-1031/75	1	Kick back finger tie bar
216	B-1031/81	1	Cutterblock pulley	246	B-1031/75	2	Thick tie bar collar
217	K06-01-214	1	6206-2RS bearing driveside	247	A-1031/136	24	Kick back finger
218	B-1031M/13	1	Drive side bearing housing	248	A-1031/155	1	C/block bearing spacer
219	A-1031M/143	2	Stud for drive side guard		A-1069/184	2	Knife setting device screws