

Modifications are made to these books from time to time and it is important therefore that only the book sent with the machine should be used as a working manual



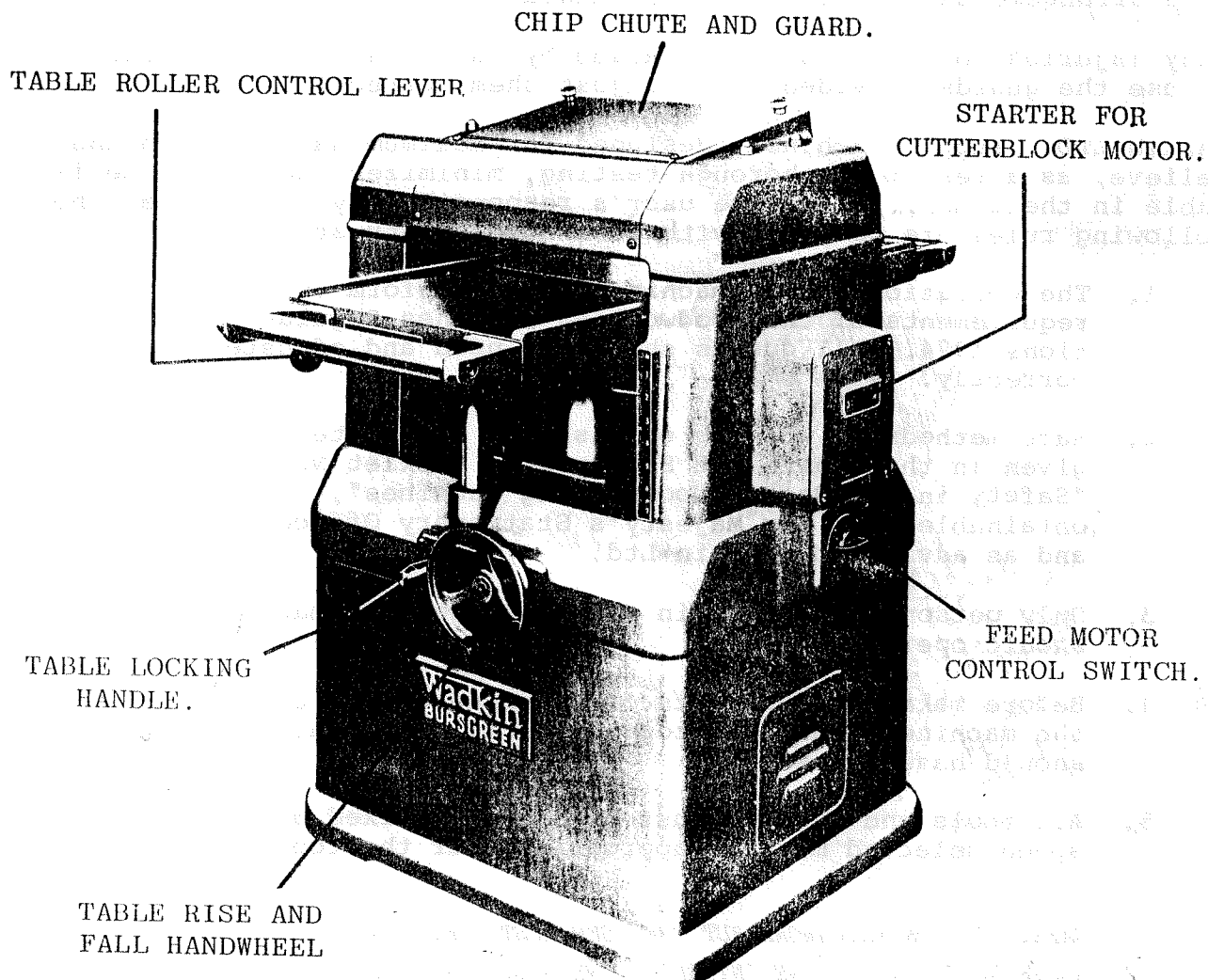
PLEASE INSERT SERIAL NUMBER OF MACHINE

INSTRUCTION MANUAL FOR

12" BAO

Roller Feed Planer & Thicknesser

DO NOT REMOVE



FOR REPLACEMENT PARTS, TOOLS & ACCESSORIES
CONTACT BRIAN STACEY

Telephone: Fence Houses 2385 (5 lines) Telex: 53441 (Bursgreen Duram)

BURSGREEN (DURHAM) LIMITED

APPROVED LUBRICANTS

Application	Approved Lubricant					
	Castrol	B. P.	Shell	Esso	Texaco/ Caltex	Wadkin
Worm Boxes	Alpha 617	Energol CS425	Vitrea 75	Pen-O-Led E. P.3	Regal Oil J	L. 2.
General Lubrication	Magna ED	Energol HP. 20	Vitrea 33	Esstic 50	Ursa Oil P. 20	L. 4.
Pneumatic Lubricators	Hyspin AWS 32	Energol HL 65	Tellus 27	Nuto H 44	Rando Oil HDA	
Grease	Spheerol AP. 3	Energrease LS. 3	Alvania 3	Beacon 3 Starfak Premium 3	Regal	L. 6.
Brake Cables	Brake cable grease	Energrease L21M	Alvania 3	Multi-purpose grease H		

SPECIFICATION

Length of thickening table.	28"	710mm
Overall length including outer rollers.. . . .	35 1/2"	900mm
Capacity of machine....	12 1/8" wide x 7" deep	310mm x 180mm
Cutting circle diameter of cutter block.. . . .	4"	100mm
Speed of cutter block...	5,000 rpm	5,000 rpm
Number of cutters:		
Standard.. . . .	2	2
Optional extra	3	3
H.P. of cutter block motor...	3	3
S.N speed of cutter block motor:		
50 cycles.	3,000 rpm	3,000 rpm
60 cycles.	3,600 rpm	3,600 rpm
Diameter of feed rollers	2"	50mm
Feed speeds per minute:		
3 phase...	15 & 30ft.	4,5 & 9m
1 phase...	22ft.	6.7m
Floor space.	35 1/2" x 25 1/2"	900mm x 650mm
Net weight.	620 lb.	275 kg.

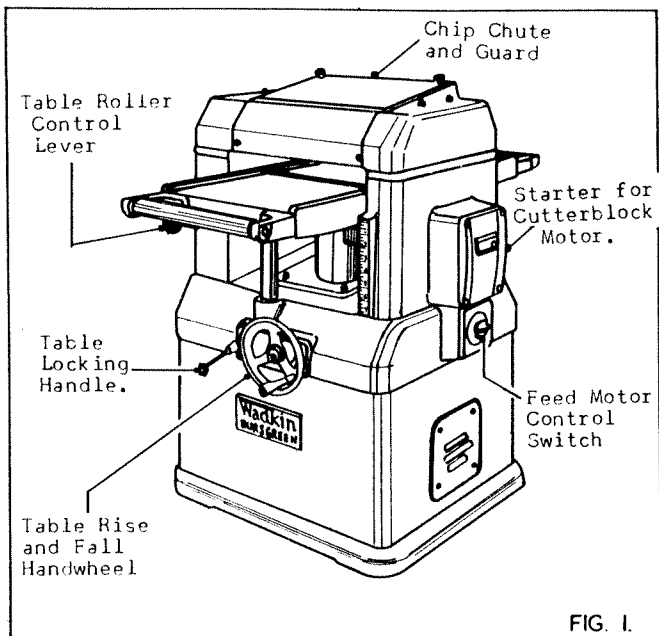


FIG. 1.

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:

1. Check the voltage, phase and frequency correspond to those on the motor plate, also the correct coils and heaters are fitted to the starter.
 2. 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.
 3. Check the main line fuses are of the correct capacity. See list below.
 4. Connect the line leads to the appropriate terminals. See Fig. 2 for three phase supply.
 5. Check all connections are sound.
 6. 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.

Voltage	Phase.	S.W.G. Tinned Copper Wire	Amps
550/400/440	3	23	20
380/420/340/380	3	22	24
220	3	21	29
200 - 250	1	17	65

Fuse capacity should not exceed three times full load current of machine.

INSTALLATION

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

When machine is cased for export, the outer table rollers and rise and fall handwheel are removed and packed in the parcel. Remove and re-assemble as shown in Fig. 1.

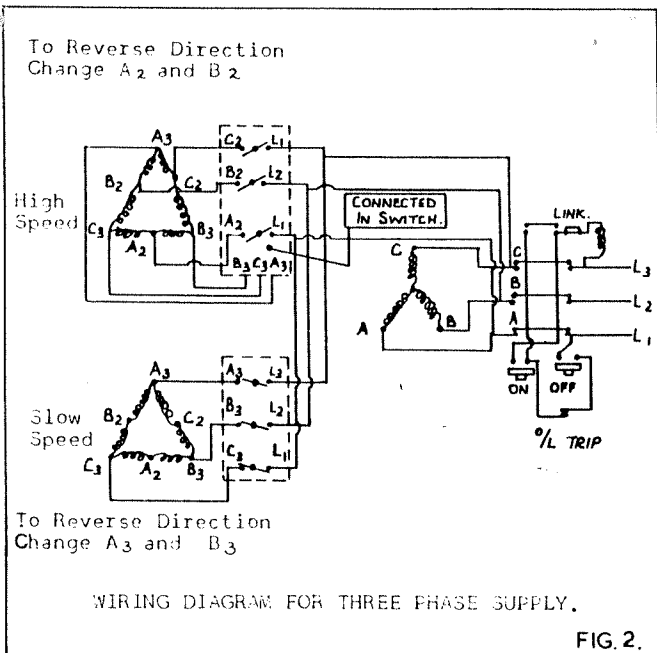


FIG. 2.

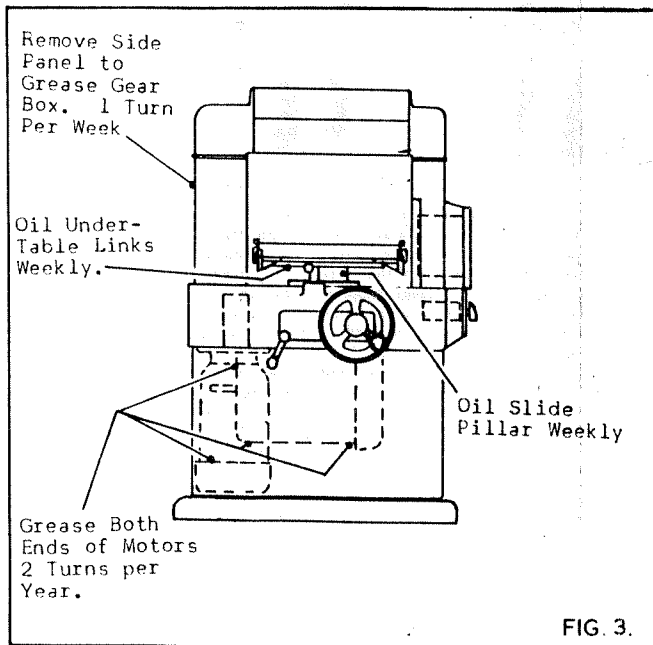


FIG. 3.

LUBRICATION

It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting.

TYPE OF OIL RECOMMENDED POWER EM. 125
TYPE OF GREASE RECOMMENDED SHELL ALV.NIA3.

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 adjustments are necessary proceed in accordance with the relative instructions given.

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. 63457 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 on this position. Feed permitting, however, very accurate step free planing can be carried out in this position.

Positions 1 and 2.

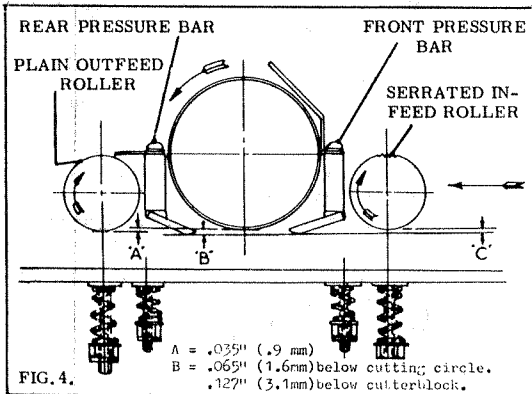
These positions are the normal ones for general use, combining good feeding with first class results.

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 setting will be disturbed.

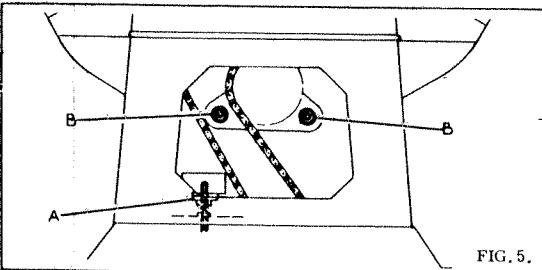
It must be emphasised that a really good surface finish from a thickening machine is only possible when the face of the timber resting on the machine table is flat and has a reasonable finish. Wherever practicable this face should be pre-machined on an overhand jointer or surfacer to remove twist and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



FEED ROLLER AND PRESSURE BAR SETTINGS

These are pre-set at works in accordance with Fig. 4 and tical 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. 4.

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. 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.



BELT TENSION

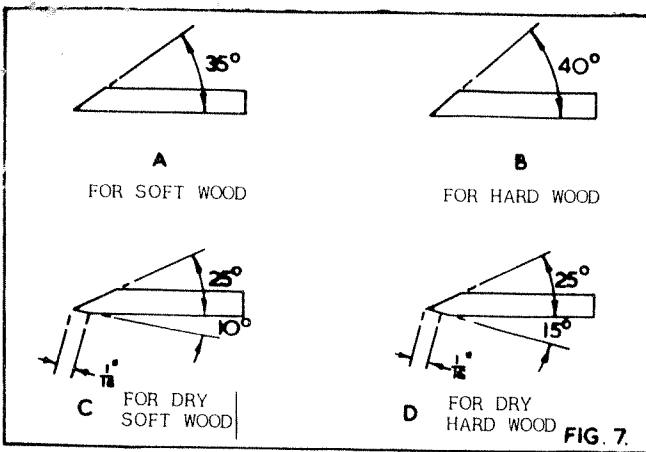
The cutterblock drive is by 2 Vee belts from a 3 HP motor. Tension is effected to these belts by an adjustable jockey pulley. To adjust, remove sheet steel panel from drive side of the machine and turn the knurled nut "A" in Fig. 5 in the direction indicated until the required tension is reached.

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 $\frac{1}{4}$ " (6 m/m) from rest position. To adjust, remove drive side panel, loosen the two nuts "B" in Fig. 5 and move idler sprocket as required. Check feed roller lift as above, tighten nuts and replace panel.



CUTTER CARE

The cutters supplied are 12¼" long (310mm) x 1¼" wide (32 mm) x ¼" thick (3mm) in balanced sets. They should be kept in balanced sets by ensuring that the cutters have equal dimensions after grinding and that the cutting edge is straight and parallel to the back edge.

For general work knife angles for soft and hard woods are recommended as in Fig. 7 (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. 7 (c) and (d). For wet or green timber the cutting bevel may be decreased five degrees, but the front bevel should not be given.

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.

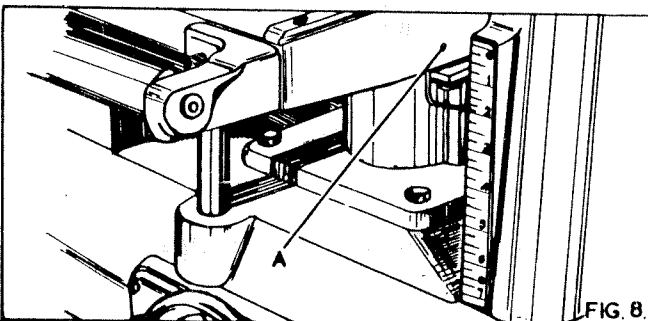
Do not allow a heel greater than 1/32" wide on the bevel before removing and regrinding. When the heel becomes too wide the knives may heat up or have a hammering effect on the wood and more than normal power will be required to run the cutterblock.

SETTING THICKENING 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 thickening 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 underside 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 parallel to the knives for accurate thickening.



THICKENING 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. 8 and set pointer to the correct thickness.

GENERAL HINTS

1. When thickening long lengths of timber always support after the machine table, otherwise a step will appear on either or both ends.

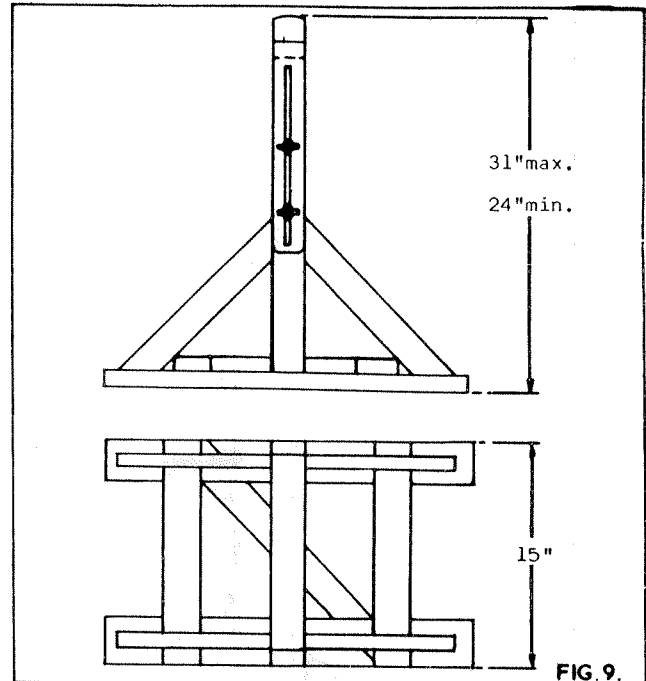
See fig. 9 for suggested support which can be easily made.

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.

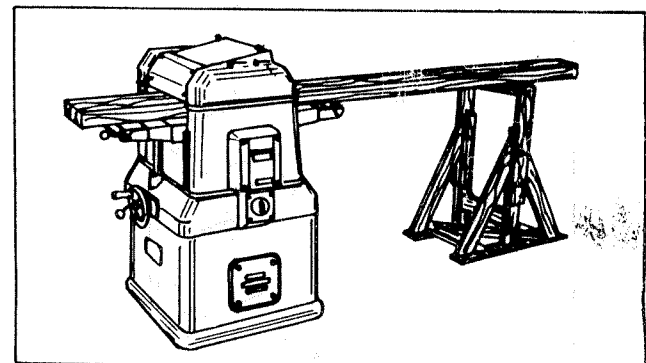
3. For the best results always feed the timber to cut with the grain.

4. Should the timber stick when thickening two probable causes are given below:

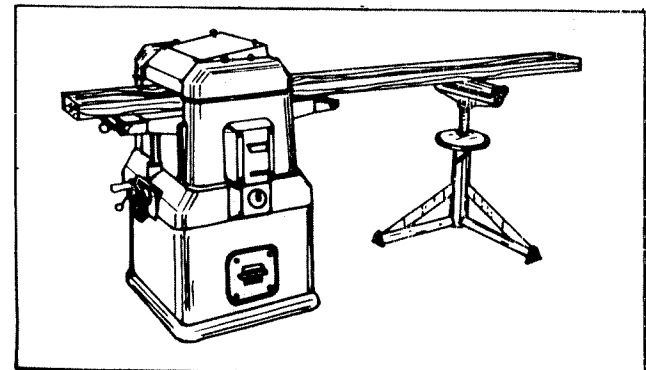
- (a) The table rollers are set too low in the table.
- (b) The spring pressure is too great on the pressure bars and too little on the feed rollers.



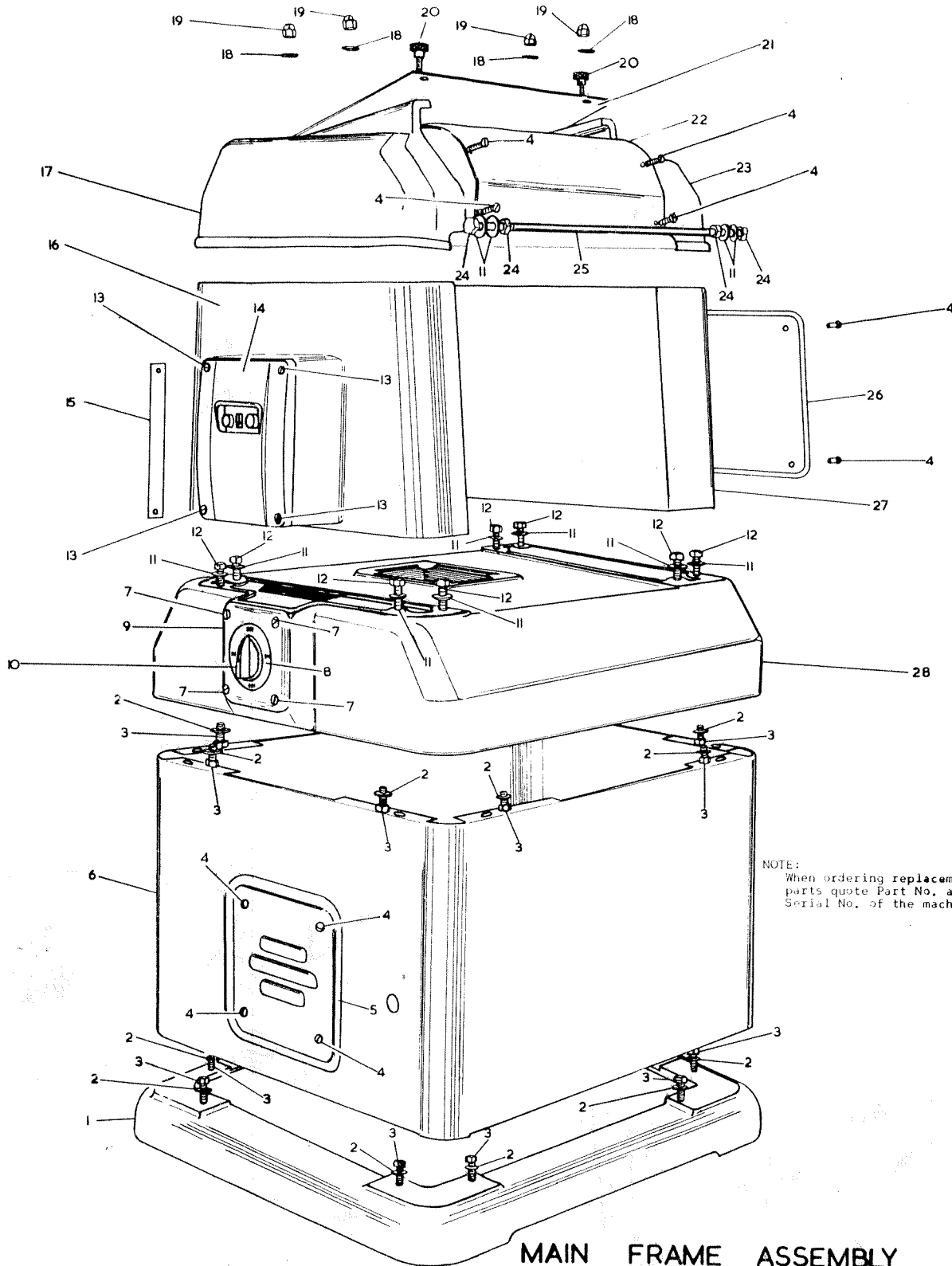
OVERALL DIMENSIONS OF SUGGESTED SUPPORT



SKETCH SHOWING WOOD SUPPORT IN POSITION



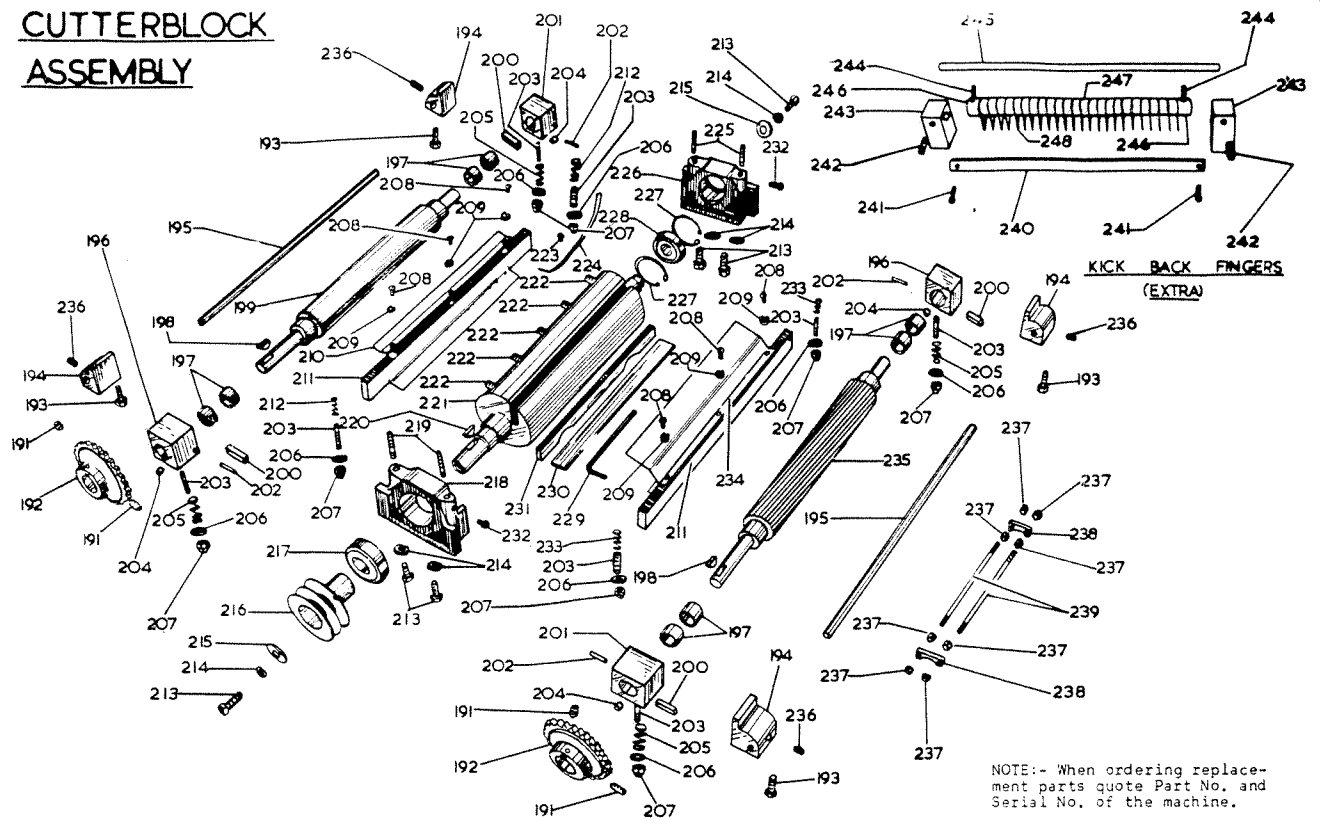
SKETCH SHOWING WADKIN/BURSGREEN ROLLER STAND TYPE VW IN POSITION.



MAIN FRAME ASSEMBLY.

Ref. No.	Part No.	No. off	Description	Ref. No.	Part No.	No. off	Description
1.	D-1031/5	1	Foot for base.	12.		8	$\frac{1}{8}$ " whit. x 1" long hexagon head bolt.
2.		16	$\frac{3}{8}$ " cadmium washer.	13.		4	$\frac{1}{2}$ " whit. x 1" long cheese head screw.
3.		16	$\frac{3}{8}$ " whit. x $\frac{3}{4}$ " long cadmium hexagon head bolt.	14.	84ADS/FO	1	MEM starter.
4.		22	$\frac{1}{4}$ " whit. x $\frac{3}{8}$ " long round head screw.	15.	B-1031/25	1	NOTE: 1 phase and 60 cycle supplies have separate push button controls for full details refer to manufacturer.
5.	B-1031/53	2	Panel for base.	16.	B-1031/65	1	Thicknessing table rule (English).
6.	E-1031/7	1	Base (Standard).	17.	B-1031/3	1	Thicknessing table rule (Metric).
7.	C-1031/97	1	Base (Single phase).	18.	D-1031/22	1	Rebate side frame.
8.	B-1031/67	4	$\frac{1}{4}$ " whit. x $\frac{3}{8}$ " long countersunk screw.	19.		4	Rebate side guard.
		1	Escutcheon plate for rotary switch (Standard).	20.		4	$\frac{5}{16}$ " washer.
	A-1031/93	1	Escutcheon plate for rotary switch (Single phase).	21.	D-1797/62	2	$\frac{5}{16}$ " whit. domed nut.
9.	B-1031/16	1	Faceplate for rotary switch.	22.	D-1031/31	1	Knurled knob for chip chute.
10.	SR.1310BG74	1	Santon 2 speed rotary switch (3phase, 50 cycles).	23.	D-1031/31	1	Front chip chute.
	SR.123	1	Santon rotary switch (1phase, 50 cycles).	24.	D-1031/21	1	Back chip chute.
	SR.1316AR65	1	Santon 2 speed rotary switch (3phase, 60 cycles).	25.	A-1031/34	8	Drive side guard.
11.		16	$\frac{3}{8}$ " washer.	26.	B-1031/52	2	$\frac{1}{8}$ " whit. nut.
				27.	D-1031/2	1	Guard tie bar.
				28.	E-1031/1	1	Drive side frame panel.
						1	Drive side frame.
						1	Main frame.

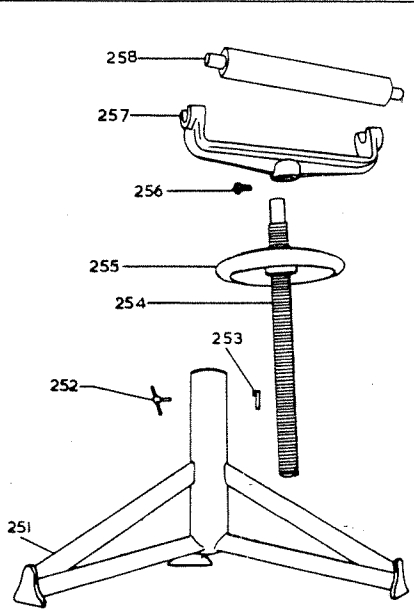
CUTTERBLOCK ASSEMBLY



KICK BACK FINGERS (EXTRA)

NOTE:- When ordering replacement parts quote Part No. and Serial No. of the machine.

Ref.No.	Part No.	No. off	Description	Ref.No.	Part No.	No. off	Description
191		4	5/8" whit. x 1/2" long socket head grub screw	211	C-1031/29	2	Pressure bar.
192	A-1031/61	2	Feed roller sprocket 25 teeth.	212	A-1031/50	2	Pressure bar spring.
193		4	5/8" whit. x 1" long hexagon head bolt.	213		6	5/8" whit. x 1" long hexagon head bolt.
194	A-1031/23	4	Tie bar lock.	214		6	5/8" spring washer.
195	A-1031/30	2	Side frame tie bar.	215	A-1032/22	2	Cutterblock washer.
196	B-1031/28B	2	Feed roller bearing block.	216	B-1031/81	1	Cutterblock pulley.
197		8	3/8" bore x 1 1/8" O/D x 3/4" long oilite bush.	217	5G88506C4	1	SKF sealed for life bearing.
198	No. 150	2	4" wide x 1" woodruff key.	218	B-1031/13	1	Drive side bearing housing.
199	C-1031/27	1	Feed roller (plain).	219		2	5/16" whit. x 1 1/4" long stud.
200	3" long	4	1/2" sq. black "Tesamol", type 770	220	No. 155	1	5/16" wide x 1" woodruff key.
201	B-1031/28A	2	Feed roller bearing block.	221	C-1031/72A	1	Cutterblock.
202		4	1/2" dia. x 1" long fluted dowel.	222		10	1/2" whit. x 1 1/4" long dog pointed socket head grub screw.
203		8	5/16" whit. x 3" long stud.	223		2	3/32" dia. x 3/8" long fluted rivet.
204	A-1031/39	4	Feed roller stop.	224		2	Cutterblock spring.
205	A-1031/49	4	Feed roller spring.	225	A-5-41	2	5/16" whit. x 1 1/8" long stud.
206		8	5/16" washer.	226	B-1031/14	1	Rebate side bearing housing.
207		8	5/16" acorn nut.	227	5000-206	2	Truarc internal circlip.
208		6	1/4" whit. x 1/2" long round head screw.	228	DN.205	1	Fischer sealed for life bearing.
209		6	1/4" spring washer.	229		1	4" cross flats, long arm hexagon wrench.
210	A-1031/33	1	Scraper plate.	230	B-5-55	2	Cutterblock knife (12 1/2" long).
				231	D-1810/110	2	Strip for cutterblock.
				232		2	1/2" whit. x 1/2" long cheese head screw.
				233	A-1031/50	2	Pressure bar spring.
				234	A-1031/32	1	Baffle plate.
				235	C-1031/27	1	Feed roller (fluted).
				236		4	5/8" whit. x 3/8" long socket head grub screw.
				237		8	5/8" whit. nut.
				238	A-1031/54	2	Knife setting device end plate.
				239	D-1810/2	2	Knife setting device tie bar.
				240	A-1031/76	1	Stop bar.
				241		2	1/2" whit. x 1/2" long countersunk head screw.
				242		2	1/2" whit. x 1/2" long socket head grub screw.
				243	B-1031/74	2	Kick back finger tie bar block.
				244		2	1/2" whit. x 3/8" long socket head grub screw.
				245	B-1031/75	1	Kick back finger tie bar.
				246	B-1031/75	2	Thick tie bar collar.
				247	B-1031/75	23	Thin tie bar collar.
				248	A-1031/73	24	Kick back finger.

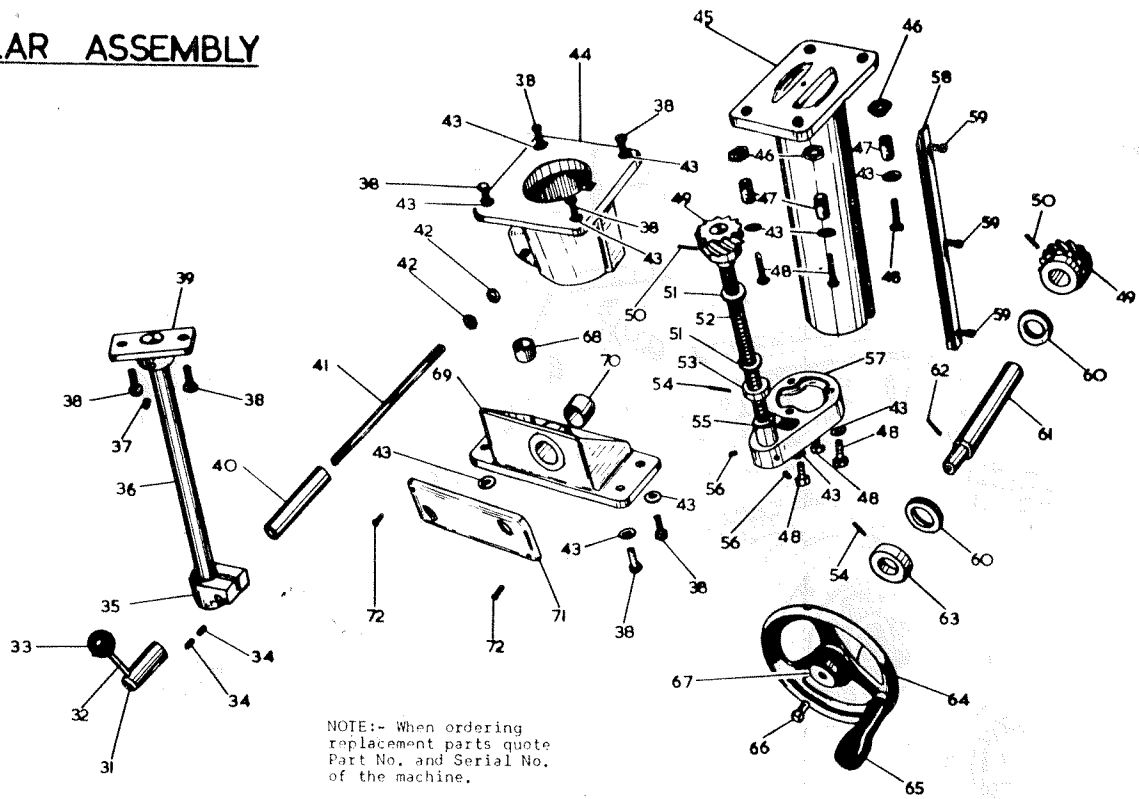


ROLLER STAND TYPE VW

Ref.No.	Part No.	No. off	Description
251	BVW.3	1	Roller stand.
252	S.122	1	T. locking handle.
253	BVW.8	1	Roller stand key.
254	BVW.4	1	Roller stand rise and fall screw.
255	BVW.2	1	Rise and fall handwheel.
256		1	5/8" whit. x 1" long sq. head bolt.
257	BVW.1	1	Yoke of roller stand.
258	BVW.6	1	Roller.

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

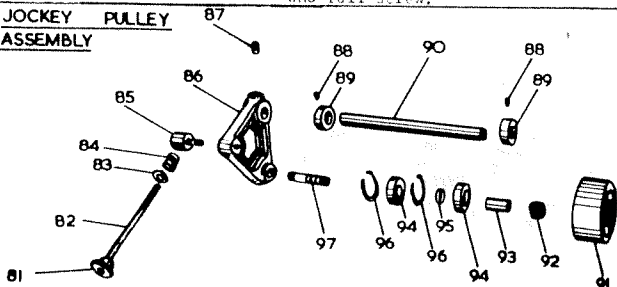
PILLAR ASSEMBLY



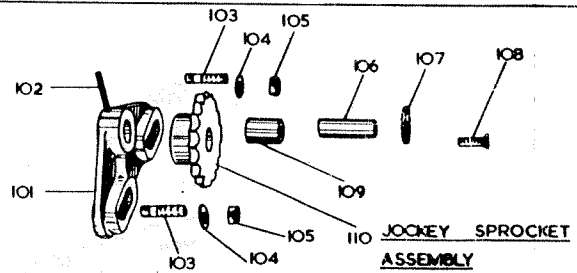
NOTE:- When ordering replacement parts quote Part No. and Serial No. of the machine.

Ref.No.	Part No.	No.off	Description	Ref.No.	Part No.	No.off	Description
31.	A-1031/84	1	Undertable support locking handle.	54.		2	3/16" dia. x 1 1/2" long groverlok spring dowel.
32.	A-1002/90A	1	Table rise and fall locking handle.	55.	A-1031/58	1	Nut for thickening table rise and fall.
33.	Patt. No.30	1	1 1/2" dia. plastic ball, 3/8" whit.	56.		2	5/16" whit. x 1/2" long socket head grub screw.
34.		2	1/2" whit. x 1/2" long socket head grub screw.	57.	B-1031/15	1	Pillar end cap.
35.	A-1031/83	1	Undertable support bar clamp.	58.	A-1031/44	1	Thickening table pillar key.
36.	A-1031/87	1	Undertable support bar.	59.		3	5/16" whit. x 1/4" long socket head cap screw.
37.		1	3/8" whit. x 1/2" long socket head grub screw.	60.	EW.1	2	Hoffmann thrust race.
38.		10	3/8" whit. x 1" long hexagon head bolt.	61.	A-1031/41	1	Thickening table rise and fall shaft.
39.	A-1031/89	1	Undertable support bar bracket.	62.		1	3/16" dia. x 1 1/4" long groverlok spring dowel.
40.	A-1031/86	1	Undertable support locking bush.	63.	A-1031/114	1	Collar for rise and fall shaft.
41.	A-1031/85	1	Undertable support locking stud.	64.	B-1026/8	1	Rise and fall handwheel.
42.		2	1/2" whit. locknut.	65.	Patt. No.4	1	3" plastic handle.
43.		15	1/4" washer.	66.		1	1/2" whit. x 3/4" long hexagon head bolt.
44.	D-1031/10	1	Pillar slide bracket.	67.	A-1031/70	1	Washer for handwheel.
45.	D-1031/8	1	Pillar.	68.		1	3/8" bore x 1" O/D x 1/8" long oilite bush.
46.	A-1031/51	4	3/8" simplex locknut.	69.	C-1031/11	1	Bracket for rise and fall mechanism.
47.	A-1031/95	4	Thickening table adjusting screw.	70.		1	1" bore x 1 1/4" O/D x 1" long oilite bush.
48.		7	3/8" whit. x 1 1/2" long hexagon head bolt.	71.	B-1031/17	1	Faceplate for rise and fall handle.
49.	CK.187	2	Spiral gear for rise and fall.	72.		2	1/2" whit. x 1/2" long round head screw.
50.		2	3/16" dia. x 2" long groverlok spring dowel.				
51.	EW. 3/8	2	Hoffmann thrust race.				
52.	B-1031/42	1	Thickening table rise and fall screw.				
53.	A-1031/94	1	Collar for thickening table rise and fall screw.				

JOCKEY PULLEY ASSEMBLY



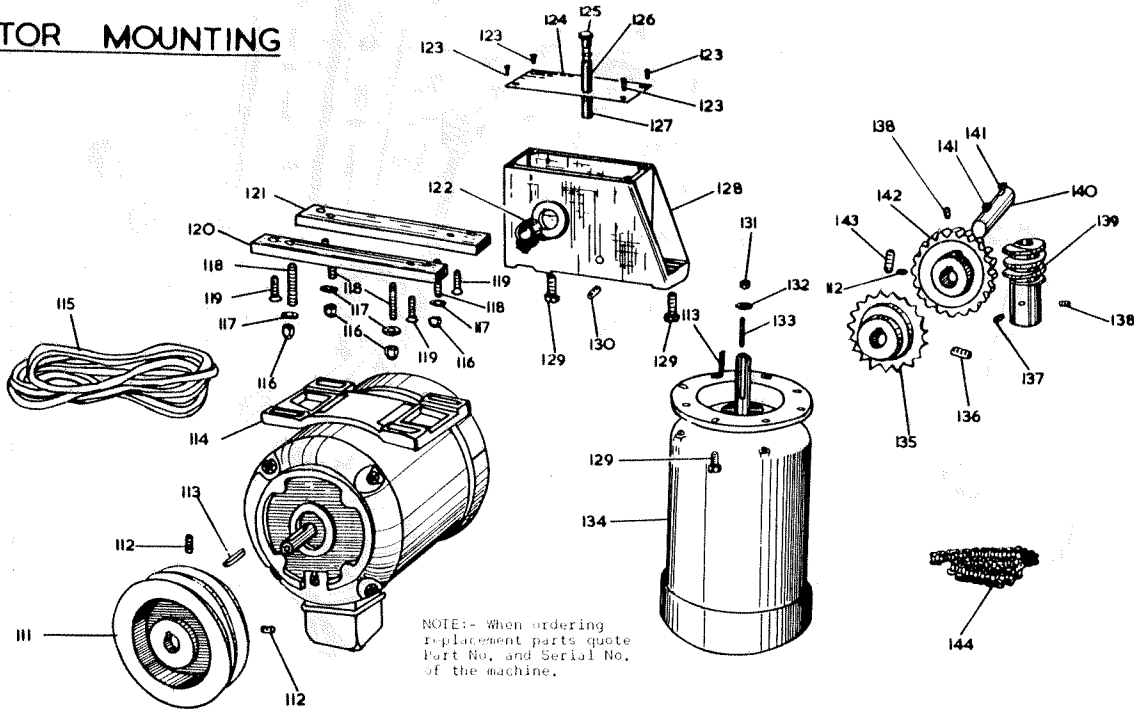
Ref.No.	Part No.	No.off	Description
81.	A-1002/87	1	Jockey pulley adjusting nut.
82.	A-1031/46	1	Belt tension screw.
83.		1	3/8" washer.
84.	A-1024/21	1	Spring for belt tensioner.
85.	A-1031/40	1	Belt tensioner pivot nut.
86.	C-1031/9	1	Lever for belt tensioner.
87.		1	1/8" gas x 1/2" long socket head grub screw.
88.		2	1/4" whit. x 1/2" long socket head grub screw.
89.	A-1031/69	2	Jockey pulley pivot shaft collar.
90.	A-1031/47	1	Pivot pin for belt tension lever.
91.	A-1031/20	1	Belt tension pulley.
92.		1	1/2" whit. aerotight nut.
93.	A-1031/48	1	Bearing bush for belt tension pulley.
94.	6203.F.	2	Fischer single seal bearings.
95.	A-1031/78	1	Jockey pulley distance piece.
96.	5008-156	2	"Truarc" 40 m/m internal circlip.
97.		1	1/2" whit. x 2 1/2" long stud.



Ref.No.	Part No.	No.off	Description
101.	C-1031/6	1	Bracket for jockey sprocket.
102.		1	3/16" dia. x 1 1/2" long groverlok spring dowel.
103.		2	3/8" whit. x 1 1/2" long stud.
104.		2	3/8" washer.
105.		2	3/8" whit. nut.
106.	A-1031/35	1	Jockey sprocket bearing pin.
107.	A-1027/86	1	Countersunk washer for jockey sprocket.
108.		1	5/16" whit. x 3/8" long countersunk head screw.
109.		1	3/8" bore x 1 1/4" O/D x 1 1/4" long oilite bush.
110.	A-1031/59	1	Jockey sprocket (19 teeth).

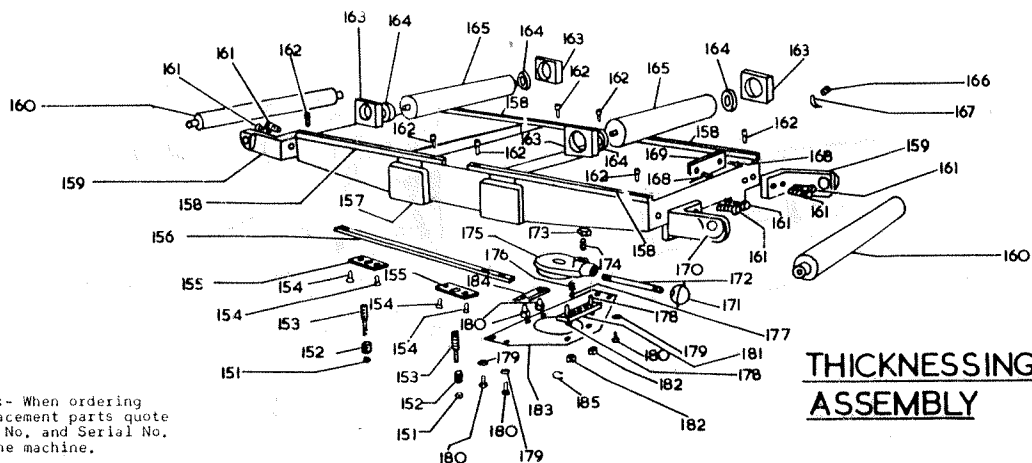
NOTE:- WHEN ORDERING REPLACEMENT PARTS QUOTE PART NO. AND SERIAL NO. OF THE MACHINE.

10 MOTOR MOUNTING



Ref.No.	Part No.	No.off	Description
111	B-1031/80	1	Motor pulley (50 cycle).
	B-1031/91	1	Motor pulley (60 cycle).
112		3	1/4" whit. x 1/2" long socket head grubscrew
113		2	3/16" wide x 1 1/2" long feather key.
114		1	Brook M66B, 3HP, TEFC motor, 2840 r.p.m. foot mounted 3PH, 50 cycles.
		1	Brook D184, 3HP, TEFC motor, 2840 r.p.m. foot mounted 1PH, 50 cycles.
		1	Brook M66B, 3HP, TEFC motor, 3480 r.p.m. foot mounted 3PH, 60 cycles.
115	A.57	2	Goodyear belt (red type).
116		4	3/8" whit. aerotight nut.
117		4	3/8" washer.
118		4	3/8" whit. x 1 1/2" long stud.
119		4	3/8" whit. x 1" countersunk socket head screw (50 cycles).
		4	3/8" whit. x 1 1/2" countersunk socket head screw (60 cycles).
120	B-1031/82	1	Spindle end packing piece for M.66 motor 1/2" thick (50 cycles).
	B-1031/82	1	Spindle end packing piece for M.66 motor 1/2" thick (60 cycles).
121	B-1031/82	1	Fan end packing piece for M.66 motor 1/2" thick (50 cycles).
	B-1031/82	1	Fan end packing piece for M.66 motor 1/2" thick (60 cycles).
122		2	1 1/4" bore x 1" O/D x 3/8" long oilite bush.
123		4	3/16" whit. x 1/2" long round head screw.
124	A-1031/56	1	Feed gear box cover.

Ref.No.	Part No.	No.off	Description
125	No. 0	1	1/4" gas brass grease stuffer.
126	A-1031/62	1	Grease tube for gearbox.
127	A-1031/63	1	Nut for grease tube.
128	C-1031/12	1	Feed gearbox.
129		4	3/8" whit. x 3/4" long hexagon head bolt.
130		1	1/2" gas x 3/8" long socket head grubscrew.
131		1	1/2" whit. aerotight nut.
132		1	Retaining washer for worm.
133	A-1031/71	1	1/2" whit. x 1 1/4" long stud.
134		1	Brook T.14, 2 speed TEFC motor, 710 and 1420 r.p.m. flange mounted 3PH 50 cycles
135	A-1031/60	1	Brook C.12 TEFC motor, 1420 r.p.m. flange mounted 1PH 50 cycles.
136	A-1031/92	1	Brook T.14, 2 speed TEFC motor, 850 and 1700 r.p.m. flange mounted 3PH 60 cycles.
137	B-1031/57	1	Gearbox sprocket, 19 teeth, 3 phase supply.
138		1	Gearbox sprocket, 15 teeth, 1 phase supply.
139		1	3/8" whit. x 1/2" long socket head grubscrew.
140		2	1/2" whit. x 3/8" long socket head grubscrew.
141	B-1031/45	1	Worm for feed gearbox, 3 phase supply.
142	A-1031/45	1	Worm for feed gearbox, 1 phase supply.
143	B-1031/57	1	Feed wormwheel bearing shaft.
144	B-1031/57A	1	Wormwheel for feed gearbox, 3 phase supply.
	B-1031/57A	1	Wormwheel for feed gearbox, 1 phase supply.
	110046	112 pitches	1 1/2" whit. x 1/2" long socket head grubscrew. Renold chain.



THICKENING TABLE ASSEMBLY

Ref.No.	Part No.	No.off	Description
151		4	5/16" whit. locknut.
152	A-1031/115	4	Pinion.
153	A-1031/116	4	Adjusting screw for pinion.
154		8	1/4" whit. x 1/2" long countersunk head screw
155	A-1031/101	4	Rack trapping plate.
156	B-1031/100	2	Adjustment rack.
157	D-1031/4	1	Thickening table.
158	A-1031/36	4	Thickening table strip.
159	B-1031/24	2	Thickening table roller bracket (Rt.Hd)
160	B-1031/68	2	Outer table roller.
161	A-1031/110	8	Outer table roller bracket securing screw
162		8	1/2" whit. x 1/2" long chase head screw.
163	A-1031/38	4	Undertable roller bearing block.
164	DN.200	4	Fischer sealed for life bearing.
165	B-1031/37	2	Undertable roller.
166		1	1/2" whit. x 1/2" long socket head grubscrew
167	A-1031/43	1	Thickening table rise and fall pointer.
168		2	1/2" dia. x 1/2" long fluted rivets.

Ref.No.	Part No.	No.off	Description
169	A-1031/117	1	Undertable roller adjustment plate.
170	B-1031/24	2	Thickening table roller bracket (Lt.Hd)
171		1	1" dia. plastic ball, 3/8" whit.
172	A-1031/103	1	Undertable roller adjustment handle.
173		1	3/8" whit. locknut.
174		1	3/8" whit. x 1/2" long socket head grubscrew.
175	B-1031/99	1	Undertable roller adjustment cam.
176	A-1031/118	1	Undertable roller adjustment spring.
177		1	5/16" dia. steel ball.
178	A-1031/106	2	Stop screw for cam.
179		4	1/4" washer.
180		6	1/2" whit. x 1/2" long hexagon head bolt.
181	A-1031/104	1	Cam outer bearing plate.
182		2	1/2" whit. nut.
183	C-1031/98	1	Undertable adjusting bracket.
184	A-1031/105	1	Cam inner bearing plate.
185		1	1" external circlip.

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 & 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.

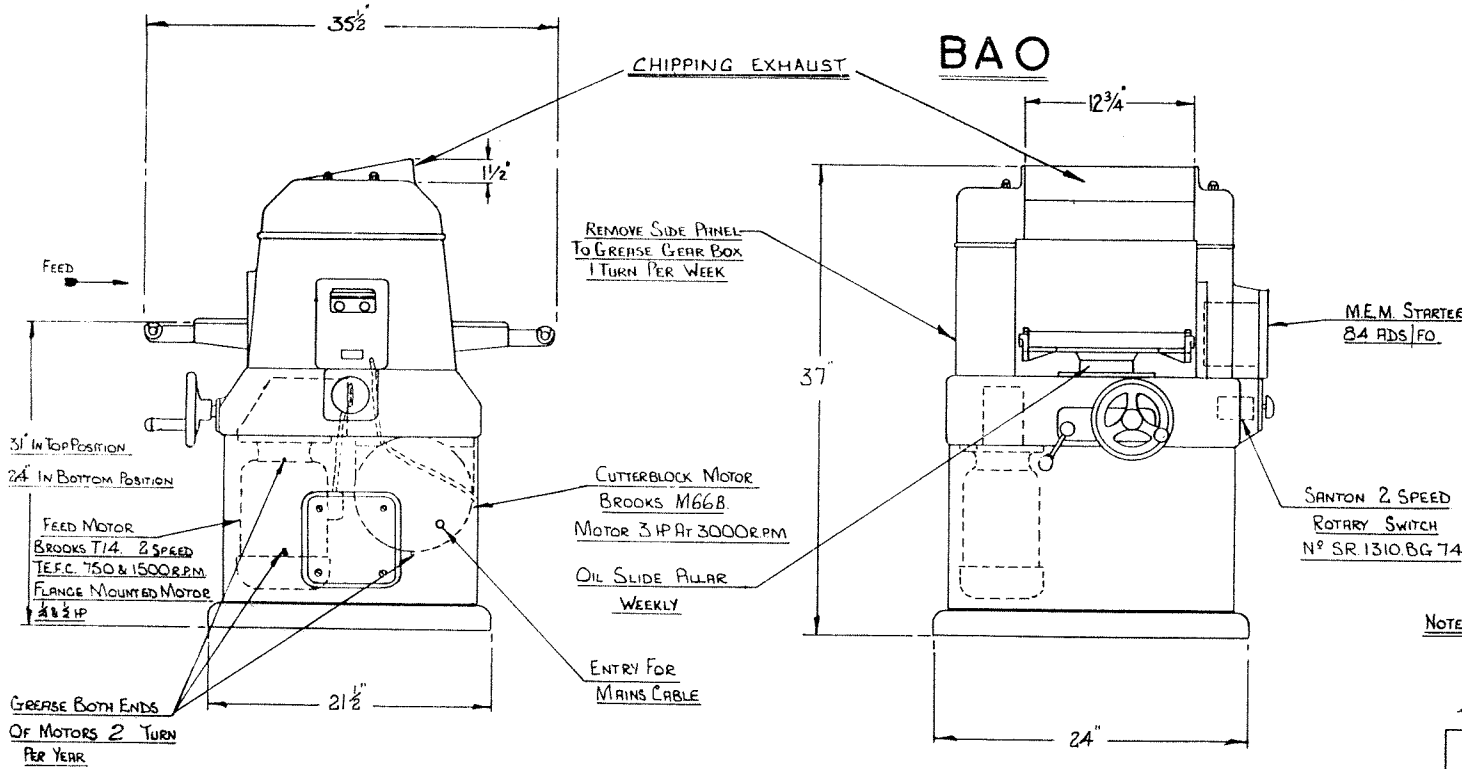
To remove the knives and re-set with the "BURSGREEN" knife setting gauge, proceed as follows:-

- 1 Remove the four domed nuts and washers securing the guard and chip chute and lift the complete guard clear of the machine.
- 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 most important that knives are ground dead straight and balanced in pairs or sets.

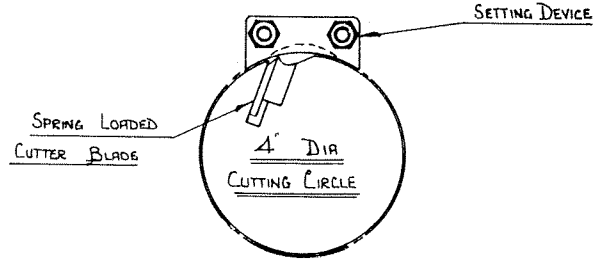
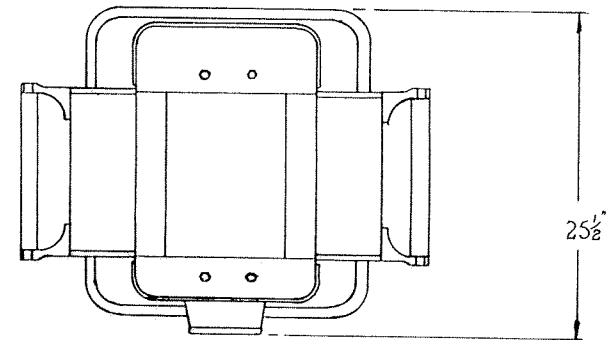
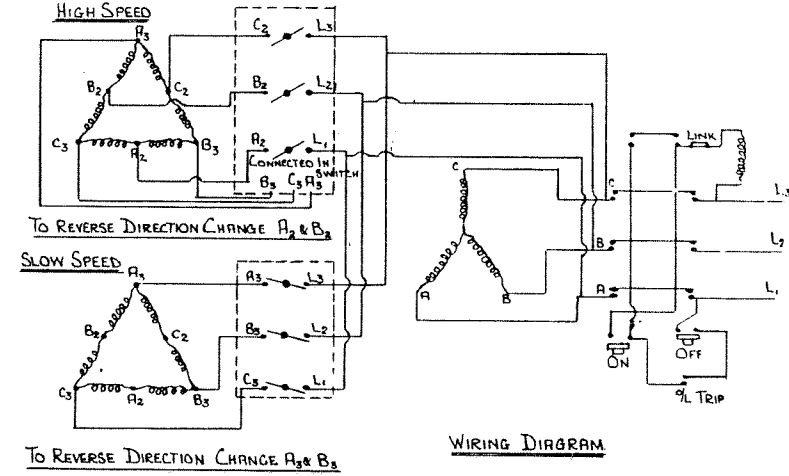
An efficient re-grinding service is available, charges are moderate and service prompt. To avail yourself with this service, return knives to BURSGREEN (DURHAM), FENCE HOUSES, TYNE & WEAR.

- 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.
- 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 "Moly slip" or similar oil, before replacing.



- SPECIFICATIONS**
- CAPACITY OF MACHINE = 12 1/2" WIDE x 7" DEEP
 - SPEED OF CUTTERBLOCK = 5000 R.P.M.
 - H.P. OF CUTTERBLOCK MOTOR = 3 HP
 - H.P. OF FEED MOTOR = 1/2 & 3/4 HP
 - RATES OF FEED = 15 & 30 ft/min
 - APPROX NETT WEIGHT = 616 lbs
 - GROSS WEIGHT = 788 lbs
 - CASE SIZE = 2' 8 1/2" x 2' 6 1/2" x 3' 5 1/2"
 - CASE VOLUME = 23.8 cu ft
 - TYPE OF GREASE RECOMMENDED = SHELL ALVANIA 3
 - TYPE OF OIL RECOMMENDED = POWER EM 125
 - BEARINGS USED**
 - 1-DN205 (FISCHER) BEARING } - USED ON CUTTERBLOCK
 - 1-BB506 (S.K.F.) BEARING }
 - 4-DN 200 (FISCHER) BEARINGS -- USED ON UNDER TABLE ROLLERS
 - 2-BB503 (S.K.F.) BEARINGS --- USED ON JOCKEY PULLEY
 - 2-EW 3/4" (HOFF) THRUST RACES } - USED ON R & F BRACKET
 - 1-EW 1" (HOFF) THRUST RACE }

NOTE:- GREASE CHAINS, FEED GEAR BOX & R & F ASSEMBLY WEEKLY.
WHEN INSTALLING LEVEL TABLE BY PACKING UNDER FOOT OF BASE



SKETCH SHOWING KNIFE SETTING DEVICE IN POSITION.

BELTS:- 2-A57 VEE ROPES.

NOTE:- CHECK & ADJUST BELT TENSION DAILY DURING FIRST TWO WEEKS OF RUNNING TO AVOID BELT SLIP WHEN STARTING UP MACHINE.

TITLE:- 12" THICKENING M ¹				BURSGREEN (DURHAM) LTD FENCE HOUSES, CO. DURHAM.	
OUTLINE DRG	TYPE	MOD ^o NOTES	QUANT PER M ¹	MAT :-	DATE
	B.A.O		ORDER N ^o		27-1-60
					DRG N ^o C-1031/FD

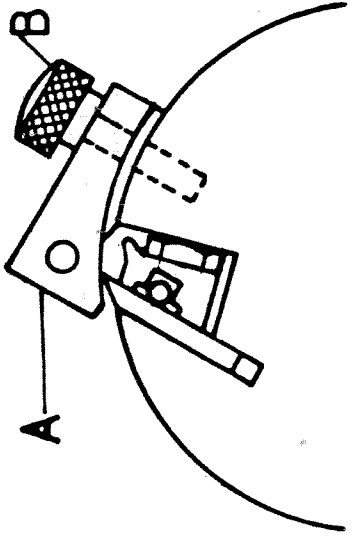


FIG. 6.