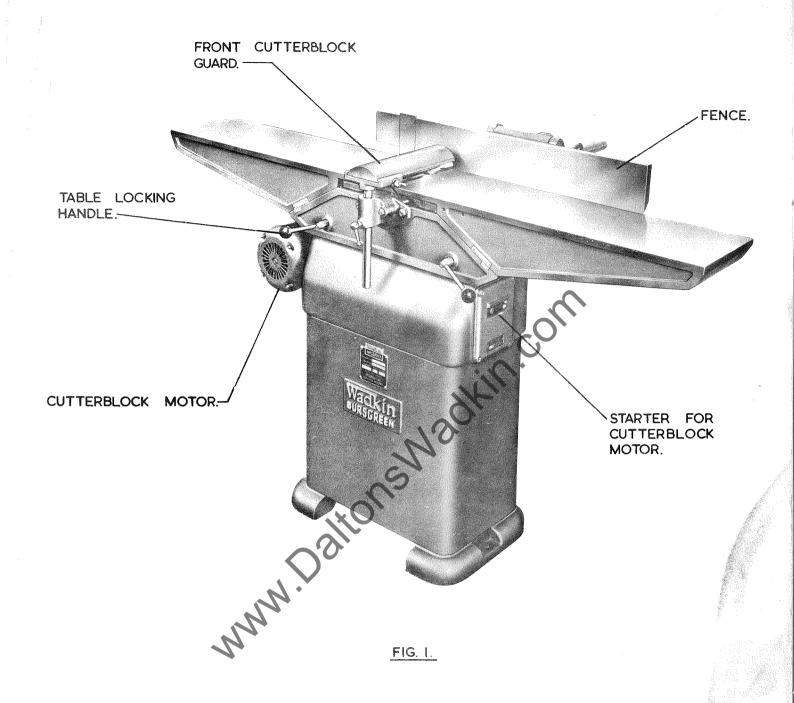
## HAND FEED PLANER TYPE 9" BFT



S	Р	E	C	Ţ	F	1	C	Α	1	7	0	N

Planing capacity			9" wide		O mm " mm C					
Length of tables			5'0"	152	5 mm 3					
Speed of cutterblock in r.p.m			5000	500	O					
Cutting circle of cutterblock			3½"	9	O mm					
Fence:-										
Length			30"	76	O mm					
73 . 1			4¼"	11	O mm					
Will cant to			45 <sup>0</sup>	45	0					
Will rebate to			½"	1	2 mm					
Rise and fall of tables			%" .		6 mm į					
H.P. of driving motor					phase)					
Syn. speed of motor		3000 r.p	.m, 50 cycles	3600 r.p.m,	60 cycles					
		FLOO	R MACHINE	RENCH	MACHINE					
Height of table from floor		34 <mark>5"</mark>	875 mm	14%"	350 mm					
Approx. floor space			1500x 750 mm	•	1500 x 750 mm					
Approx. net weight		3641b		3251b						
Approx. gross weight			245 kg	4001b	~					
Shipping dimensions			.75 cu.m		.35 cu.m.					
Rebate table (EXTRA)				121b	5 kg					
Rebate table (EXTRA) 121b 5 kg 121b 5 kg										

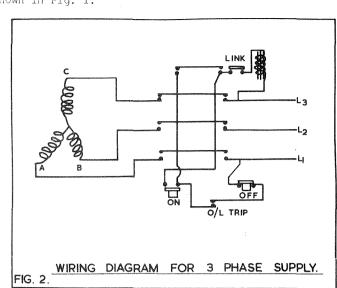
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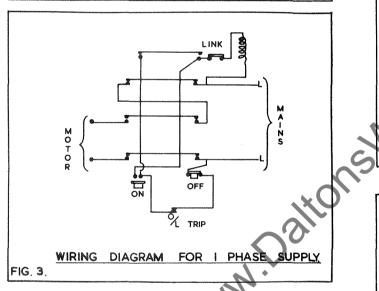
INSTALLATION Remove protective coating from bright parts by

See Fig. 5 for bolt positions and clearance required. applying a cloth soaked in paraffin, turpentine or other When installing the machine, level the table by packing solvent.

under the feet. Foundation bolts are not supplied with when the machine is cased for export the motor, belt the machine except by special order.

and packed individually. Remove and re-assemble as shown in Fig. 1.





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

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.

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. See Fig. 3 for

single phase supply.

5. Check all connections are sound.

6. Check the rotation of the motor for the correct direction. If this is incorrect on three phase supply reverse any two of the line lead connections.

VOLTAGE	PHASE	SWG.TINNED COPPER WIRE	AMPS		
220	3	22	24		
340/420	3	25	15		
550	3	29	10		
200/250	1	19	38		

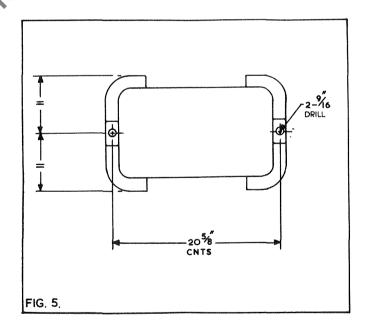
LUBRICATION

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 chippings for

TYPE OF OIL RECOMMENDED
TYPE OF GREASE RECOMMENDED

ease of operation.

Oil fence links and rack bar weekly. Oil slides weekly Oil Rise and Fall screws weekly. Grease Both Ends of Motor Turns per



BELT TENSION

The drive is by means of 2 vee belts from a 2 HP motor mounted on a hinge bracket.

To check the belt tension, remove the belt guard

at the rear of the machine.

The tensioning arrangement is shown in Fig. 6.

To re-tension the belts the undermentioned procedure should be followed:
1. Adjust the nut A, until the spring is compressed to approximately 9/16" against the pull of the belts. This will ensure the correct belt tension is maintained.

Replace the belt guard. This should be in place at all times when the machine is running.

To ensure trouble free running of the machine it is adding to the machine it is adding to the machine it.

POWER EM 125 SHELL ALVANIA www.DaltonsWadkin.somle to check the belt tension regularly. www.DaltensWadkin.com

1. To obtain the best surface finish always check the direction of the grain, which should run with the cutter as shown in Fig. 12.

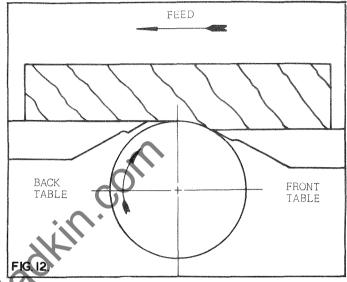
2. To obtain a perfectly flat surface especially with

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".

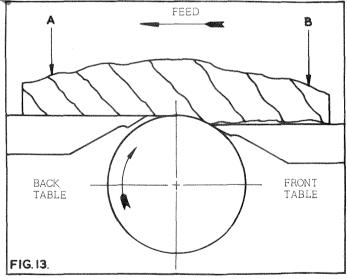
Greater pressure will be required when surfacing

bad grained timber, otherwise chattering will take place resulting in coarse finish near each knot.

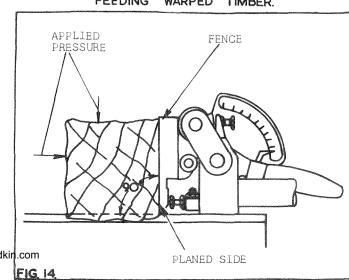
When planing four sides of timber, square turn the timber anti-clockwise after each cut, so that there will always be a machined face next to the fence as in Fig. 14. The fence locates accurately







FEEDING WARPED TIMBER.



**FENCE** USTMENT

The rence cants by means of a single lever "A" in . 10 to 45°. The angle to which the fence is canted is shown on a graduated scale "C".

To can't the fence to the required angle loosen the handwheel "B" and lift handle "A" until the required the required angle is shown on the graduated scale "C", then re-lock handwheel "B"

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

The fence is also adjustable across the full width of the table by means of a rack and pinion. To adjust the fence across the table loosen the handwheel "E", and turn the handwheel "F" in the direction which the fence is required to move, until the required position is reached, then re-lock handwheel "E".

is reached, then re-lock 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°. There are both accurately set before despatch from the works.

To check the positive stops on the fence the undermentioned procedure should be followed:

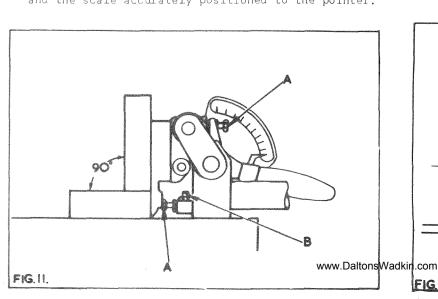
1. Move the fence towards the rear of the table as shown in Fig. 11.

2. Check the 90° positive stops by means of a steel square as shown in Fig. 11. If adjustment is necessary, adjust the hexagon head bolts "A" until the fence is at right angles to the table when hard up against the stops and the handwheel "B", in Fig. 10, locked.

10, locked.

3. Check the 45° positive stop by means of an adjustable square. If adjustment is necessary, adjust the socket head grubscrew "B" until the fence is 45° to the table when hard up against the stop and the handwheel "B" in Fig. 10 locked.

4. If adjustment is necessary to the positive stops check that the graduated scale is still correct. This is secured to the support bar by means of a socket head grubscrew. This should be loosened and the scale accurately positioned to the pointer.

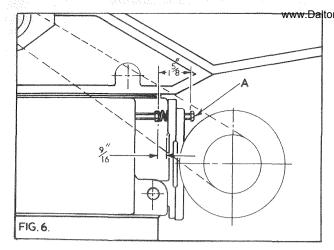


25°

150

FOR DRY

HARD WOOD



CUTTER SETTING

The knives are held in the cutterblock by a steel clamping bar secured with 4 - ½" whit, heat treated socket head screws. When the locking screws are released the cutters are ejected slightly by a small leaf spring. This is to facilitate easy cutter setting with the special gauge supplied. As the amount of the machine it is most invariant that the terret operation of the machine it is most important that the actual gauge supplied with the machine should be used. Stany other method of cutter setting be employed the amount of cutter projection must be exactly the same as with that given by the setting gauge supplied and failure to observe this instruction will result in poor finish. To remove the cutters and re-set with "Bursgreen" cutter setting gauge proceed as follows:-

1. Move the fence to rear of the table and lower both planing tables to their lowest position.

Turn the cutterblock to approximately the position shown in Fig. 7 and slacken the securing screws until the knife is just free of the cutterblock. Care should be taken when loosening the last screw as the knives are spring loaded.

The knives can now be removed for grinding or r placing. When grinding it is most important that knives are ground dead straight and balanced in page

An efficient re-grinding service is availabl Charges are moderate and service prompt. I yourself with this service, return cutters

yourself with this service, return cutters to:

BURSGREEN (DURHAM) LIMITED

FENCE HOUSES, HOUGHTON-LE-SPRING, CO. DUHAM.

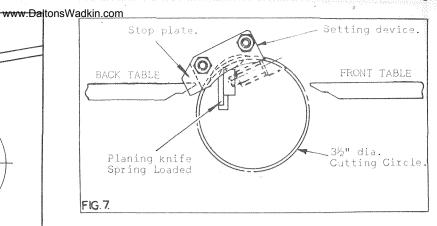
3. To re-set the knives, the cutterblock should be in approximately the position shown in Fig. 7. Place the knife in the slot making sure that all faces are clean and the clamping bar free from burrs. Press the knife into the cutterslock with the setting device in Fig. 7 until the four predominant pads rest on the outer surface of the cutterblock and the end stop plate is pressed against the rebate side of the back planing table. Position the knife so that its end butts against the stop plate so as to line up the tip of the knife with the edge of the back table.

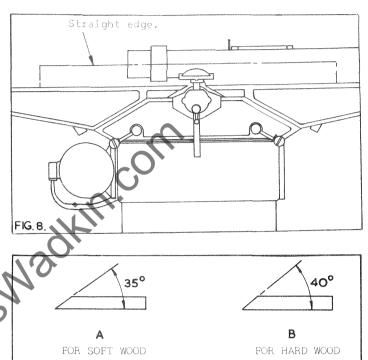
4 Holding the setting device securely in this position,

4. Holding the setting device securely in this position, tighten the securing screws. Before fully tightening the screws, check that they have not moved in the setting process. The cutting edge should now be dead setting process. The cutting edge should now be departed to the planing tables and the edge in line with the back planing table edge.

Check that all the securing screws have been tightened before setting the next knife.

- 5. Rotate the cutterblock until the next knife is in position and repeat the procedure until all the knives have been set.
- To check the setting of the knives raise the back table to its top position i.e. the zero mark on the rule or 1/16" above the outer surface of the cutterblock. Place a straight edge on the table as shown in Fig. 8 and rotate the cutterblock by hand until the knife just touches the straight edge. Repeat this check in various positions over the width of the table to ensure the knife is parallel. Repeat this procedure for all knives.
- 7. When changing cutters it is advisable to check that all the locking screws are adequately lubricated and quite free. Periodically examine for damage or cracks bevel before removing and re-grinding. When the heel particularly in the hexagon hole. Any doubtful screws becomes too wide the knives may heat up or have a should be replaced and all screws well lubricated with hammering effect on the wood and more than normal "Molyslip" or similar oil before replacing.





CUTTER CARE

FIG. 9.

The cutters supplied are 9½" (235 mm) long x 1½" (32 mm) wide x ½" (3 mm) 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.

D

25°

FOR DRY

SOFT WOOD

For general work, knife angles for soft and hard woods are recommended as in Fig. 9 (a) and (b).

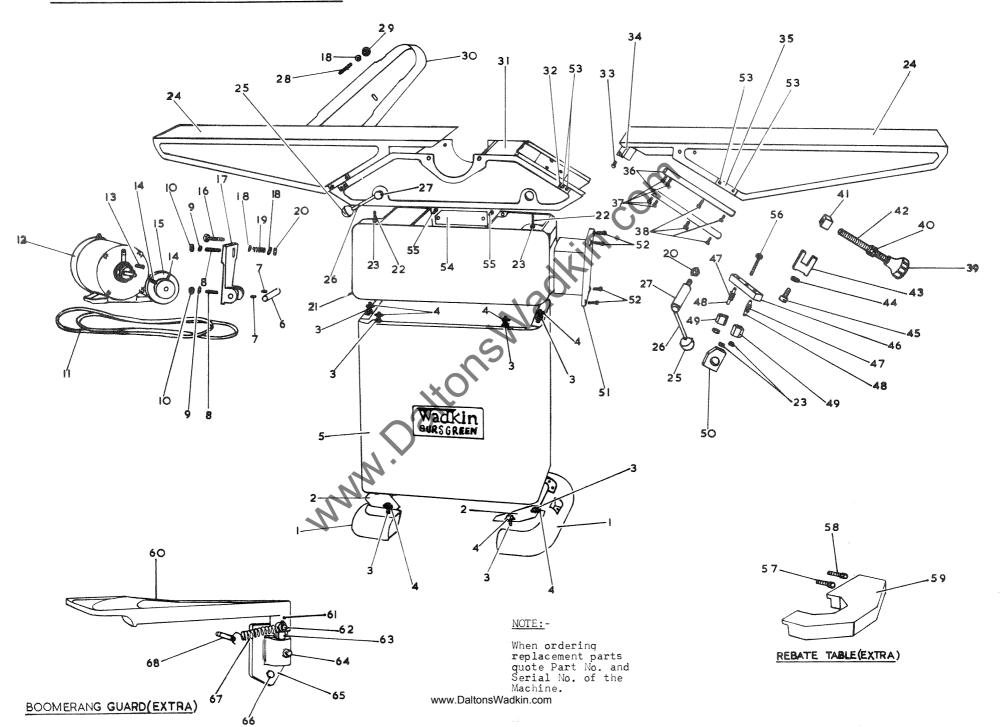
When a very fine finish is required in dry soft and hard woods a slight front bevel is given as in Fig. 9 (c) and (d). For wet or green timber the cutting bevel may be decreased five degrees, but the front bevel should not be given.

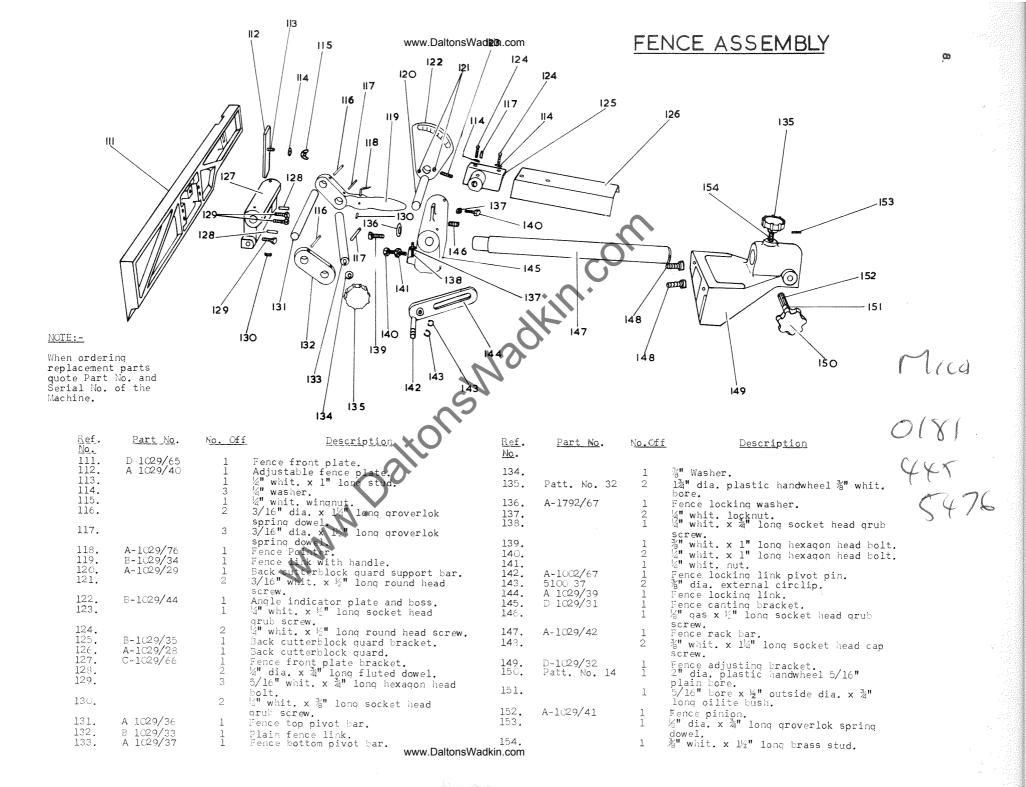
Keep the cutters sharp when in position by using a fine grade oil stone dipped in paraffin. Allow the stone to rest lightly and flat on the bevel and pass over the cutter with a rotating action a few times. Give about two strokes on the full length of each knife on the face side to remove all burns from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

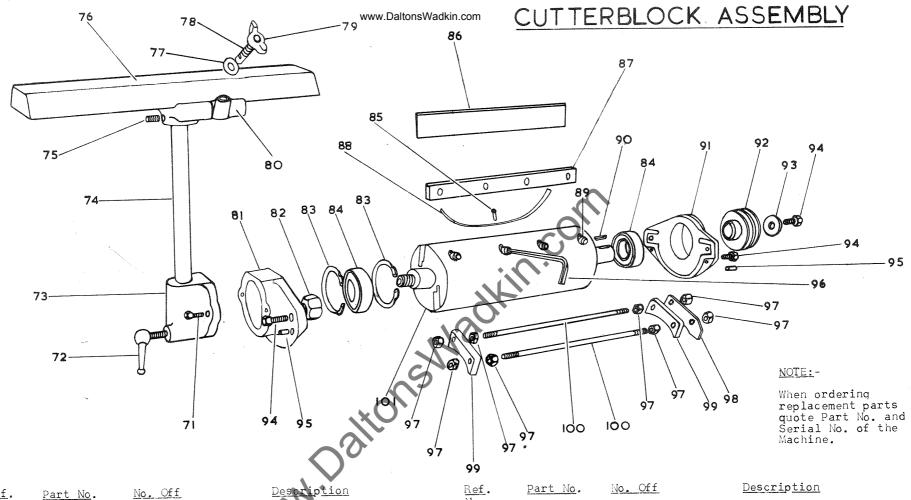
Do not allow a heel greater than 1/32" wide on the

Ref.	Part No.	No. Off	<u>Description</u> www.Dalto	<u>Ref</u> . ns <b>We</b> dkin.co	Part No.	No. Off	Description	Ç
	C-1029/11	2	Foot for base.	36.	A-1029/13	4	Table slide rod.	
1. 2.	0-1049/11	4	Fillet for base.	37.		8	4" whit. x 3" long socket head cap	
3.		16	浅" whit. x ¾" long cadmium hexagon head bolt.	38.		8	screw. 4" whit. x 1" long socket head cap	
4.	D 1000/00	16	a cadmium washer.	39.	Patt. No. 24	2	screw. 2" dia. plastic handwheel, ½" plain	
5. 6.	D-1029/22 A-1034/14	1 1	Sheet steel base. Motor pivot shaft.	39.	ract, No. 44	£	bore.	
7.	1	2	%" whit. x %" long socket head grub	40.		4	½" whit. locknut.	
		4	SCREW.	41. 42.	A-1029/7 A-1029/12	2 2	Table rise and fall nut. Table rise and fall screw.	
8. 9.		4 4	5/16" whit. x 1%" long stud. 5/16" washer.	43.	B-1029/24	2	Table rise and fall bracket.	
ío.		4	5/16" whit. aerotight nut.	44.	2 10-7, -1	2	½" spring washer.	
11.	2410	2	M section vee belt (50 cycle,	45.		$\sim$ 2	½" whit. x 1¼" long socket head	
	2440	2	3 Phase & 60 cycle, 3 Phase). M section vee belt (50 cycle,	46.	B-1029/16	2	cap screw. Table locking bar.	
	2440		1 Phase & 60 cycle, 1 Phase).	47.	A-1029/55	4	Table spring.	
12.		1	Brook motor, Tl4, T.E.F.C., 2 HP,	48.		4	%" whit. x 2%" long stud.	
		1	2840 r.p.m. (50 cycle, 3 Phase).	49. 50.	A-1029/72 A-1029/18	4 2	Table spring pressure nut. Eccentric block.	
		1	Brook motor, M66C, T.E.F.C., 2 HP, 2840 r.p.m. (50 cycle, 1 Phase).	51.	44ADS/FÖ	1	MEM Starter (3 Phase, 50 cycle	
		1	Brook motor, T14, T.E.F.C., 2 HP, 3480 r.p.m. (60 cycle, 3 Phase).				supply).	
		4	3480 r.p.m. (60 cycle, 3 Phase).		AT3	1	Brook Starter (1 Phase, 50 cycle	
		1	Brook motor, M66C, T.E.F.C., 2 HP, 3480 r.p.m. (60 cycle, 1 Phase).	10	AT3	1	supply). Brook Ștarter (3 Phase, 60 cycle	
13.		1	$3/16$ " wide x $1\frac{1}{2}$ " long feather key.	MIC			supply).	
14.		2	划" whit. x ¾" long socket head grub	71.	AT3	1	Brook Starter (1 Phase, 60 cycle	
15.	B-1029/75	1	screw. 50 cycle motor pulley.	<b>5</b> 2.		4	supply). ¼" whit. x l" long cadmium Cheese	
10.	B-1029/78	i	60 cycle motor pulley.				head screw.	
16.		1	<pre>%" whit. x 3½" long hexagon head</pre>	53.		8	4" long Z6, Mushroom head self	
17	C-1029/9	1	bolt. Motor platform (3 Phase motor).	54.	B-1029/52	1	tapping screw. Chip chute cover.	
17.	D-1029/60	1	Motor platform (1 Phase motor).	55.	D 1027/ 02	2	4" whit. x ½" long round head	
18.		3	%" Washer.	F /		0	screws.	
19.	A-1024/21	1 3	Spring for belt tension.	56.		2	¾" whit. x 3" long hexagon head bolt.	
20. 21.	D-1029/3	1	者 whit. aerotight nut. Sub base.	57.		1	<pre>%" whit. x l" long socket head</pre>	
22.	2 20-7, 0	4	%" whit. x 1½"long stud.				cap screw (Extra).	
23.	D 1000/1	10	a" whit. nut.	58.		1	$3^{"}$ whit. x $14^{"}$ long socket head cap screw (Extra).	
24. 25.	D-1029/1 Patt. No. 28	2 2	Planing table. 14" dia. plastic ball, %" whit.	59.	C-1029/25	1	Rebate table (Extra).	
26.	A-1002/90A	2	Locking handle for table locking	60.	D-1029/70	1	Boomerang guard (Extra).	
○ yeary	D 1000/17	0	eccentric.	61.		1	4" whit. x 4" long socket head allen grub screw (Extra).	
27. 28.	B-1029/17	2 1	Table locking eccentric. 者" whit. x 5" long stud.	62.	A-1029/68	1	Spring holder bolt (Extra).	
29.	A-1029/59	i	Knurled knob for belt guard.	63.	A-1029/71	ī	Swivel pin for boomerang guard	
30.	D-1029/8	1	Belt guard (3 Phase drive).	. A		,	(Extra).	
21	D-1029/61 D-1029/2	1	Belt quard (1 Phase drive). Main frame.	64.		1	5/16" whit. x 🔏 long square head bolt (Extra).	
31. 32.	A-1029/53	2	Table rise and fall indicator.	65.	B-1029/57	1	Bracket for boomerang quard (Extra).	
33.		4	$3/16$ whit. x $\frac{3}{6}$ long round head	66.	*	2	5/16" whit. x $14$ " long hexagon head	
	A 1000/01	2	screw.	67.	A-1029/67	1	bolt (Extra). Spring for boomerang guard (Extra).	
34. 35.	A-1029/21 A-1029/23	2 1 each	Chip guard. Table rise and fall rule.	68.	A-1029/69	İ	Spring holder for boomerang guard	
	A-1029/54	1 each	Table rise and fall rule (metric)	nsWadkin.co	om		(Extra).	Šv
								pa . "

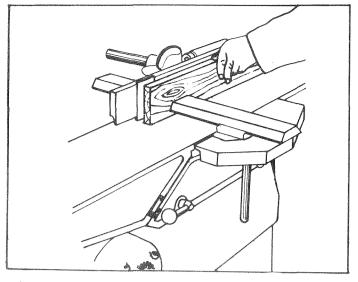
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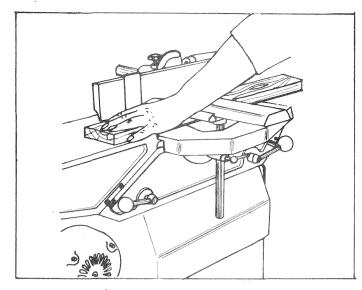




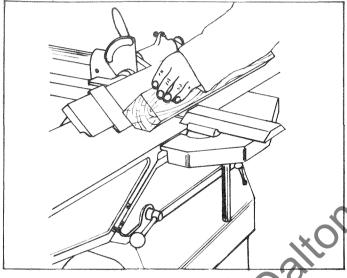
Ref.	Part No.	No. Off	<u>Description</u>	$\frac{\text{Ref}}{\text{No}}$ .	Part No.	No. Off	<u>Description</u>
<u>No.</u> 71.		2	5/16" whit. x 1" long hexagon head bolt.	88. 89.	As-41	<b>2</b> 8	Cutterblock spring. 2" whit. x 12" long dog pointed
72. 73.	B-S-1-B B-1029/6	1	%" whit, ball lever screw. Rebate side bearing cover.	9Ü.	- 1000 /s	1	socket head grub screw. 4" wide x 14" long feather key.
74. 75.	A-1029/20	1	Cutterblock guard adjusting bar. 5/16" whit. x ½" long Socket head grub screw.	91. 92.	B-1029/5 B-1029/74 B-1029/77	1	Drive side bearing housing. Cutterblock pulley (50 cycle drive) Cutterblock pulley (60 cycle drive)
76. 77.	A-1029/27	1	Front cutterblock guard. 水 washer.	93. 94.	D 1027/ 11	1 5	Cutterblock washer. %" whit. x 1" long hexagon head bolt.
78. 79.	A-1029/51	1	Front cutterblock guard locking bolt. %" whit. wing nut.	95.		4	dia. x 14" long groverlok spring dowel.
80. 81.	B-1029/10 B-1029/4	1	Front cutterblock guard bracket. Rebate side bearing housing.	96.		1	4" across flats long arm hexagon wrench.
82. 83.	5000-206	1 2 2	%" BSF left hand nut. 52 m/m internal circlip. F.B.C. sealed for life bearing.	97. 98. 99.	A-1029/49 A-1029/48	1 2	<pre>%" whit. nut. Knife setting device stop plate. Knife setting device end plate.</pre>
8 <b>4.</b> 85. 86.	DN205 B-S-55	2 1 pr	3/32" dia. fluted rivetPlaning knives (94" long).	100.	A-1029/47 C-1029/14	2 1	Knife setting device tie bar. Cutterblock.
87.	A-1029/56	2	Strip for Cutterblock www.DaltonsWadk			•	
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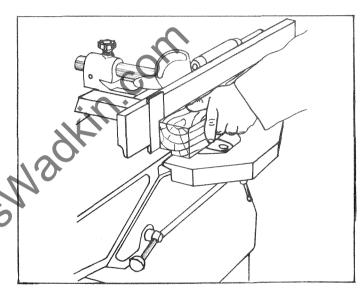
JOINTING (Rebate table is extra)



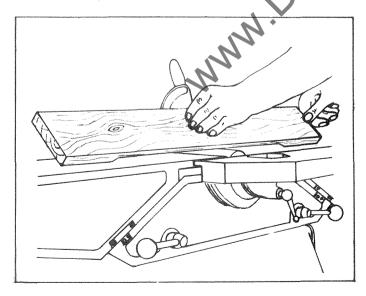
SURFACING (Rebate table is extra)

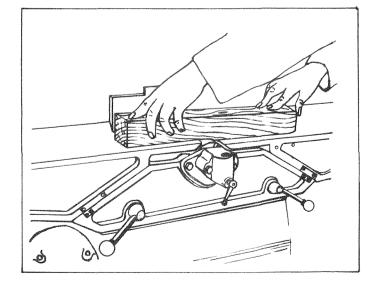


BEVELLING (Rebate table is extra)

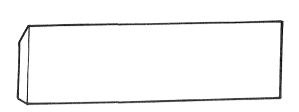


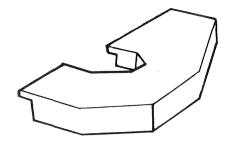
REBATING (Rebate table is extra)





# EXTRA EQUIPMENT



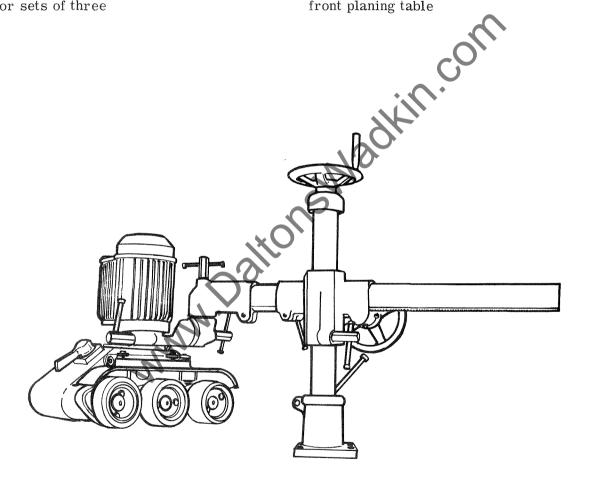


#### PLANER KNIVES

 $9\frac{1}{4}^{"}$  (235mm) long H.S.S. planer knives B.V.P.37 in pairs or sets of three

#### REBATE TABLE

A rebate table can be supplied for fitting to the front planing table



### POWER FEED UNIT TYPE BLG.8

The feed unit is supplied with 3 independently sprung rubber tyred feed rollers, two speed electric motor of 0.5/0.7HP and including reversing switch giving 8 feed speed of 6, 13, 16, 19, 33, 39, 49 & 99 feet per minute (2, 4, 5, 6, 10, 12, 15 & 30 m/min)

Standard equipment includes universal stand for horizontal and vertical working, spanner and grease gun.

Please state voltage required.