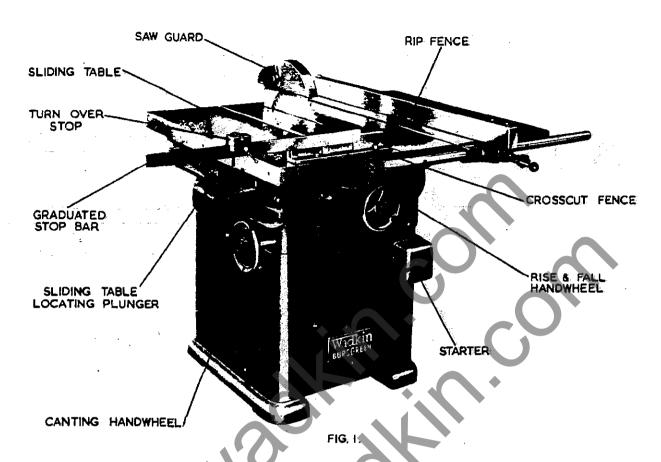
OPERATING INSTRUCTIONS MAINTENANCE AND PARTS LIST

12" SLIDING TABLE DIMENSION SAW

TYPE 12" BGS

INSTRUCTION BOOK B418

12" SLIDING TABLE DIMENSION SAW. TYPE 12" BGS



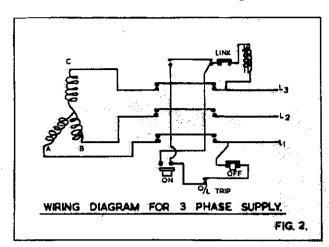
SPECIFICATION

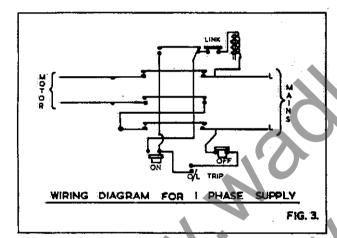
Maximum diameter of saw	300	mm.
Diameter saw arbor 1"	25	mm
Maximum saw projection above table $3\frac{3}{4}$	95	mm
Maximum sections of cut(standard machine)	610 x 25	mm
19" x 3\frac{3}{2}"	480 x 95	mm:
Maximum depth of cut, with saw at 45°	65	· mm
Maximum size of Dado or grooving set8" x 1"	200 x 25	mm.
Maximum size of circular cutterblock for moulding .4.7/8" dia x 15/16	120 x 24	mm.
Speed of saw spindle r.p.m		
Horsepower of motor (3 phase)		
(1 phase) 3		
Size of table:-		
OTTE OF MADEL		
To right of saw (fixed)	610 x 860	mm
To left of saw (sliding)	405 x 880	mm
Front of table to saw:-	100 X 000	
with maximum depth of cut	445	mm
with 1" depth of cut	480	mm
	650	mm
	63	mm
	660:	mm.
	000	IIIIII.
Fixed extension to right of saw (Extra):	1270	
manufacture, but to his tende	1210	mm.
Sliding extension table to left of saw(Extra):-	0.480	
Maximum distance, saw to stop 96"	2438	mm
Floor space, standard machine(excluding stop bar) 48" x 60"	1220 x 1525	mm
Approx. nett weight (standard machine) 900 lb	400 kg	
Approx. gross weight (standard machine)	450 kg	
Approx. Shipping Dimensions 60 cu. ft	1,70 cu. n	a.

INSTALLATION.

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

When the machine is cased for export the rip fence, bars and motor are removed and packed seperately inside the case. Remove and re-assemble as shown in fig 1.





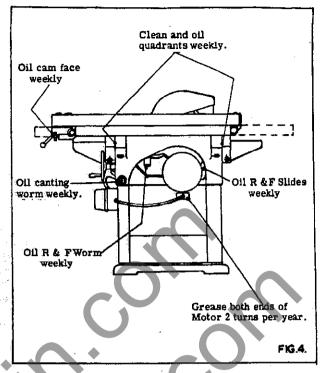
WIRING DETAILS.

The motor and control gear have been wired in before despatch all that is required is to connect the power supply to the starter or isolator when fitted.

- Points to note when connecting to power supply:1. Check that the voltage, phase and frequency correspond to those on the motorplate, also the correct coils and heaters are fitted to the starter
- 2. It is important that the correct size of cable is used to give the correct voltage at the starter. Too light a cable will give a voltage drop at the starter and may damage the motor.
- 3. Check the main line fuses are of the correct capacity. See list below. When an isolator is fitted the fuses are of the correct capacity as received.
- 4. Connect the line leads to the appropriate terminals. See fig. 2 for 3 phase supply. See fig 3 for 1 phase supply.

 5. Check all connections are sound.
- 6. Check the rotation of the motor for correct direction. If this is incorrect reverse any two of the line lead connections for 3 phase supply.

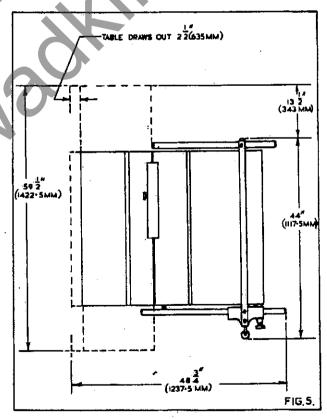
VOLTAGE.	PHASE	<u>н. Р</u> .	S.W.G. Tinned COPPER WIRE	AMPS
220 380/420 550 220 380/420	3 3 3 3	3 3 3 & 5 5	21 24 24 19 22	29 17 17 38 24
200/220 230/250	1	3 3	17 19	65 45



LUBRICATION

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

TYPE OF OIL RECOMMENDED POWER EM 125.
TYPE OF GREASE RECOMMENDED SHELL ALVANIA 3.



FOUNDATION

See fig, 5 for clearances required for this machine. When installing the machine, the tables should be levelled by packing under the feet of the base.

MOUNTING SAW BLADES.

To mount a sawblade the undermentioned procedure should he followed:-

Check the machine is isolated electrically before starting 1. to fit sawhlade

Swing the sawguard to the top position.

Raise saw arbor to its highest position, draw out sliding table to the left of the saw, as described in the following section, to give access to the saw arbor.

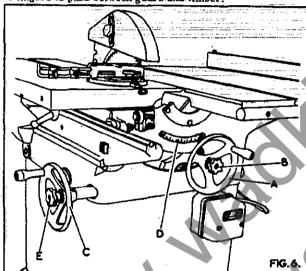
4. Remove the arbor nut (left hand thread) and front sawflange To assist in the removal of the arbor nut the back saw flange can be held in position by means of a toggle bar inserted through the hole in the main table.

Select the blade which is required depending on the type, of work which is to be done. Check the blade is free from all dirt gum or sawdust especially where it will be gripped by the flanges Mount the blade on the arbor. Check the front saw flange is clean and then fit onto saw arbor. The saw teeth should point towards the front of the machine.

If the flanges and the saw are not clean the saw will NOTE:run out of true, hence causing vibration.

8. Lock the saw securely in position with the arbor nut (left hand thread). To tighten arbor nut, hold spindle in position with the toggle bar in the back saw flange.

7. Position the sawguard depending on the thickness of timber to be worked. Clearance between saw guard and timber should be as small as practicable and at no time should it be possible for the fingers to pass between guard and timber.



RISE AND FALL CONTROLS

The saw arbor rises and falls by wormwheel and quadrant and has a total travel of 34" (95 mm). The travel of the saw is pre-set before despatch from the works. The rise and fall is controlled by the conveniently placed handwheel "A" in fig 6.

To lock the saw in any position, lock plastic handwheel "B".

CANTING CONTROLS.

The saw cants 45° to the right, with positive stops at 90° and 45° which are accurately set before despatch from the works. The motion is again through a wormwheel and racked quadrant and is controlled by the conveniently placed handwheel "C", in fig. 6. The angle of cant is shown on the graduated scale 'D". To lock the saw at any angle, lock plastic handwheel "E".

RIP FENCE CONTROLS.

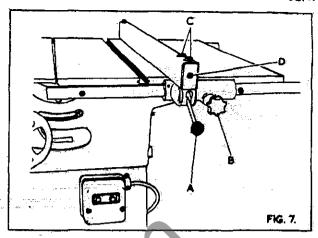
The rip fence slides on two round bars at the front and rear of the fixed table. The fence is provided with rapid and microadjustment, also an effective lock.

For, rapid adjustment the undermentioned procedure should be followed:-

1. Lift handle "A", in fig 7, and disengage the pinion from the front racked fence bar by pulling handwheel "B" out of the fence

2. Position fence where required and depress lever "A" to lock fence in position.

For micro adjustment the pinion should be engaged in the front racked bar i.e. handwheel "B" pushed into the fence front bracket.



FENCE ALIGNMENT.

To check the fence alignment the undermentioned procedure should be followed:-

Position rip fence near to the edge of the mitre fence slot. that is furthest away from the saw and lock in position,

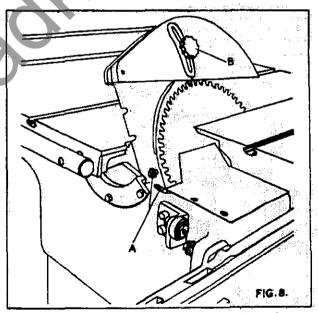
2. In this position the distance from the fence to the mitre fence slot should be approximately 1/32" (8 mm) more at the rear of the table, than at the front of the table i.e. 1/32" (.8 mm) lead off.

3. If the fence is incorrectly aligned loosen the two hexagon head bolts "C", in fig 7 and re-align as above. When set tighten all bolts.

It should be noted that the locking action of the fence is in three stages. The first stage, which is made possible by a spring loaded plunger, and ensures that the fence is always lined up to the saw as set, before the final locking.

The second stage, locks the fence back hracket in position and the final stage locks the front bracket securely in position.

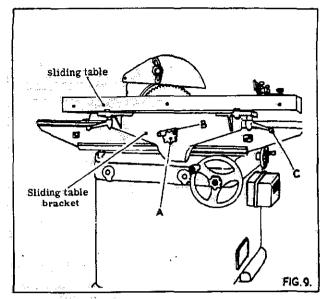
Should the locking action of the fence be incorrect the fence connecting rod nut 'D" should be adjusted. Turning nut "D" in a clockwise direction increases the locking power of the rear lock and anti- clockwise reduces the locking power. The correct locking procedure for the fence is as described above.



HOW TO ADJUST GUARD AND RIVING KNIFE

The riving knife complete with the guard rises and falls with the saw. The riving knife should be brought to within 1" (6 mm) of the saw at the closest point. To adjust the riving knife to this position, loosen the two hexagon nurs "A", in fig 8, position riving knife where required then re-lock in position

The guard should then be adjusted to protect as much of the saw as possible by loosening the handwheel "B" and positioning the guard where required. When set re-lock handwheel "B".



HOW TO FIX SLIDING TABLE.

The sliding table can be fixed in line with the fixed table to convert the machine into a standard sawbench.

The sliding table should be approximately positioned then the handwheel "A", in fig 9, should be pulled from the sliding table bracket and lever "B" swung clear of handwheel "A". Handwheel "A" should then be allowed to spring into casting engaging in the slide beam. Hence fixing sliding table in line with fixed table.

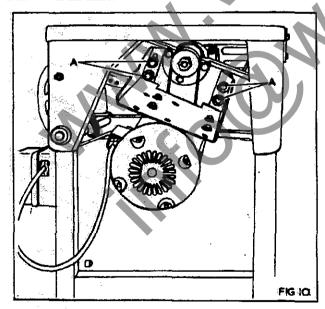
slide beam. Hence fixing sliding table in line with fixed table.

To disengage table pull handwheel "A" from casting and swing lever "B" between sliding table bracket and handwheel this ensures table is always free to move until required to be fixed again.

HOW TO DRAW OUT SLIDING TABLE.

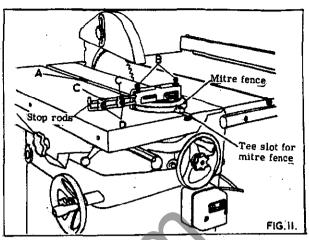
The sliding table draws out to the left, a maximum distance of $2\frac{1}{2}$ " (63 mm) to facilitate the use of dado heads, culterblocks etc.

To draw out table loosen the two levers "C" in fig. 9. When table is correctly set re-lock levers "C". It should be noted that the distance between the two tables should be kept to a minimum at all times.



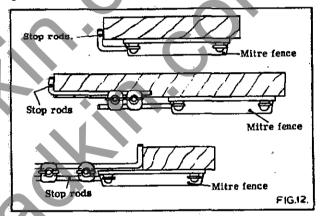
BELT TENSION.

The drive is by two Vee belts from a 3 HP motor. To tension the belts loosen the hexagon bolts "A", in fig 10. Move motor platform until the required tension is reached then re-lock hexagon bolts "A".



MITRE FENCE.

The mitre fence can be used on either side of the saw and slides in a tee slot, which should be kept clean. When the sliding table is fixed the mitre fence capacity which can be crosscut is 28" (710 mm) The mitre fence can be locked into the tee slot in sliding table by means of the grubscrew "A" in fig 11.



USE OF MITRE FENCE STOP RODS.

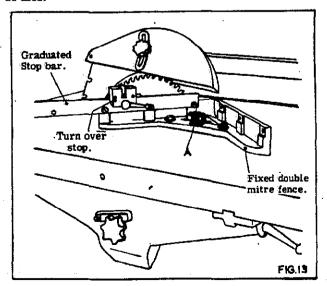
Accurate repetitive cutting can be made using the stop rods see fig. 11.

see fig. 11.

The rods are held in the fence by the thumbscrew "B", in fig
11, and the stop rods held together by the two clamps "C" to
adjust the rods by the clamps, loosen the wingruits "D".

adjust the rods by the clamps, loosen the wingnuts "D".

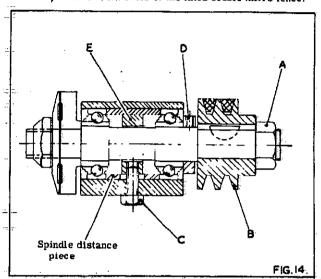
See fig 12 for several positions in which the stop rods can be used.



FIXED DOUBLE MITRE FENCE.

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A fixed double mitre fence is supplied with this machine. This can be locked in the tee slot, in the sliding table by means of the handwheel "A", in fig 13. The fence is fitted with a graduated stop bar and turnover stops. The graduated stop bar is interchangeable with that supplied with the straight cross cut fence, hence mitres can be cut on both ends of timber; with stop bars on both sides of the fixed double mitre fence.



HOW TO REPLACE SPINDLE BEARINGS

To replace spindle bearings the undermentioned procedure should be followed:-

- Remove saw and sawguard complete with riving knife
- 2. Release the tension on the beits, as previously described. and remove belts. The saw spindle should be canted to approx 450 and the gap between the tables made as large as possible.
- Now working from pulley end of the spindle. 3. Remove the 1" fine thread nut (Right hand thread) "A", in fig 14, remove spindle pulley "B", which is keyed to the spindle.
- 4. Remove the hexagon head bolt "C" securing the remaining spindle assembly in the housing, tap out assembly from the pulley end. Care should be taken not to damage the threads on the spindle end,
- 5. To remove the bearings, remove the woodruff key, then loosen the two $\frac{1}{4}$ " whit socket head grubscrews."D", remove. thespindle locking collar.
- 6. The bearings and spindle distance piece can now be driven from the spindle.

The bearings should now be replaced as the arrangement in fig 14. Care should be taken not to pre-load the bearings: i.e. the spindle distance piece should be just free between the two bearings

When the locking collar has been replaced and the assembly is ready to be replaced in the spindle housing a socilet head grubscrew should be inserted in the spindle trapping collar "E". This will assist in lining up the 3/8" whit x $1\frac{1}{4}$ " long hexagon head bolt. "C" on assembly.

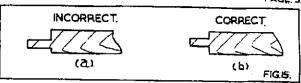
TO RE ASSEMBLE THE SPINDLE ASSEMBLY INTO THE SPINDLE HOUSING

- 1. Line up socket head grubscrew with the hole in the spindle. housing and tap in spindle assembly.

 2. Remove socket head grubscrew and replace hexagon head
- bolt "C'
- 3. Replace riving knife and set saw central to riving knife as described in the following section.
- 4. Replace the pulley and belts then re-tension belts.

When set tighten all bolts.

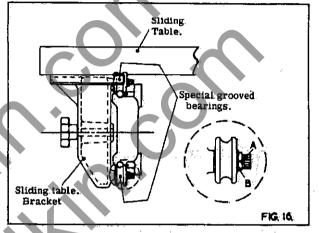
It may be found to be an advantage to remove the fixed table for access to the spindle assembly. However, if table is removed care should be taken to ensure the table is set level. and parallel to sliding table. It should be noted that the sliding table is set .003" to .005" (.08 mm to .13 mm) above the fixed table.



SETTING SAW TO RIVING KNIFE

It is most important that the saw and the riving knife are in line. To reset after the spindle has been distrubed the undermentioned procedure should be followed:-

- 1. Loosen the hexagon head adjuster bolt "C" in fig. 14, and tap spindle as required taking care not to damage the threads. on the spindle end. Place a steel rule along both sides of riving knife to check whether the saw is central.
- 2. When set re-tighten the hexagon head bolt "C"
- 3., To check this setting feed a short piece of timber from the rear along both sides of the riving knife. If the riving knife is correctly set the blade will cut equal shoulders as shown in fig. 15 (a) and when incorrectly set unequal shoulders as shown in fig. 15 (b).



HOW TO ADJUST SLIDING TABLE ROLLERS

The sliding table is fitted on three special grooved rollers which are eccentrically mounted. Should wear occur the bottom roller only should be adjusted as the top two rollers. have been accurately set before despatch from the works to ensure the table top is parallel to the beam.

To adjust roller, loosen socket head capscrew "A", in fig

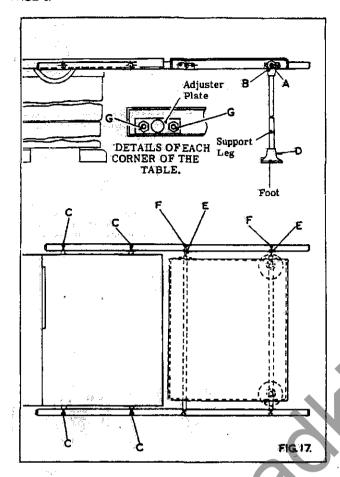
16 and eccentric bush "B" adjusted until the wear has been taken up. When set tighten all screws.

ARRANGEMENT OF SHEET METAL EXTENSION TABLE (OPTIONAL EXTRA)

A sheet metal extension table can be supplied to fit to the right of the saw as shown in fig. 17. This table increases the capacity to the right of the saw to 50" (1270 mm) between the saw and rip fence

To assemble table the undermentioned procedure should be followed:-

- 1. Remove parts from parcel and remove protective coating by applying a cloth soaked in parrafin, turpentine or other solvent and assemble as shown in fig 17.
- 2. Remove existing fence bars and replace with long bars supplied with the table, ensuring replacement bars correctly positioned i.e. zero mark on graduated bar is to the lip of fixed table.
- 3. Centralise the table with the main table of the machine Loosen socket head grubscrew "A" in fig 17, and keeping filboes "B" against the inside of the extension table. The whole assembly can slide along the tie bars. When central with main table re-tighten socket head grubscrews "A"
- 4. Loosen the four socket head capscrews "C", securing the fence slide bars to the main table and the square head bolts "D" securing the feet to the support legs. Raise or lower the support legs until the fence slide bars are parallel with the main table. There is to be 1/32" (.8mm) to 1/16" (1.8mm) clearance between the table and the bottom of the rip tence throughout the entire length. When set re-tighten all screws.



5. Loosen the nuts "E" and adjust socket head capacrews"F" until the rear fence slide bar is parallel to the front slide bar. When set re-lock nuts "E".

 Loosen the hexagon head bolts and nuts "G" securing the adjuster plate to the extension table. Raise or lower the extension table until it is level with the machine table. by means of a straight edge. When correctly set re-tighten the hexagon head bolts and nuts "G".

The table is now ready for use.

HOW TO ASSEMBLE SLIDING EXTENSION TABLE TO LEFT OF MACHINE (OPTIONAL EXTRA)

An extension table can be supplied to fit to the left of the saw as shown in fig 18. This table increases the capacity to the left of the saw to 96" (2, 440 mm) between the saw and stop.

To assemble the table the undermentioned procedure should be followed:-

 Remove parts from the parcel and remove protective coating by applying a cloth soaked in parrafin, turpentine or other solvent and assemble as shown in fig. 18.

2. When assembling table set outer floor support 22"(559 mm)

away from the sheet steel base as shown.

3. With outer support correctly positioned, secure extension table top by means of the tie bar brackets as shown.

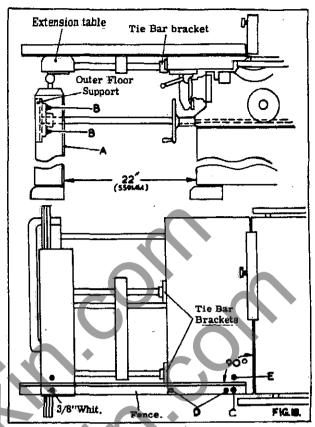
4. Check the table tops are level and parallel to the main table by means of a straight edge. If adjustment is necessary adjust the slide bar by removing panel "A" and adjusting the screws "B"

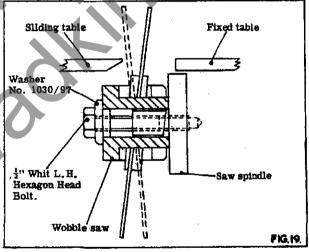
5. Secure fence to machine table in hole "C", then set square to saw. With fence securely locked in this position drill and tap a 3/8" whit hole in extension table top. When fence has been locked in position by both screws, drill the $2 - \frac{1}{4}$ dia. holes "D" in the machine table and fence for location pegs.

will ensure the fence is always positioned as set.

6. Move fence forward to hole "E", in the machine table and repeat the procedure set out in item 5.

The extension table is now ready for use.





HOW TO FIT WOBBLE SAW.

To fit wobble saw the undermentioned procedure should be followed:-

Draw out sliding table, as previously described and remove riving knife complete with guard and front saw flange, keep

these in a dry safe place.

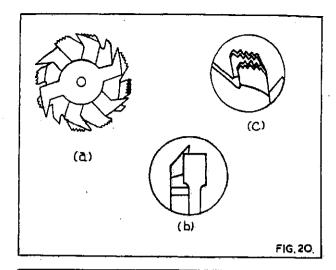
2. Remove ½" whit(left hand thread) sockethead grubscrew from the end of the saw spindle.

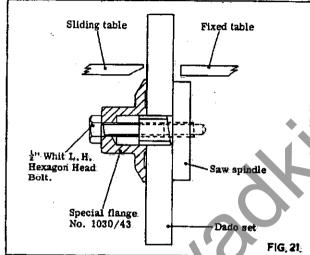
3. Fit the wobble saw to saw spindle as shown in fig. 19 and secure to saw spindle by means of $\frac{1}{2}$ " whit left hand thread hexagon head bolt supplied.

4. Set the saw to wobble to give the size of slot which is required to be cut.

To adjust saw loosen nut "A" and move saw complete with large collars to required position. When set re-lock nut "A" 5. Close the gap between tables to a minimum still allowing clearance on the wobble saw.

Maximum diameter of saw which can be used is 8"(203mm) After the job has been completed with the wobble saw, replace the $\frac{1}{2}$ " whit left hand thread socket head grubscrew into the spindle end.





HOW TO FIT DADO HEAD

A dado head is made of two outside saws and five inner cutters. Various combinations of saws and cutters can be used to cut grooves from 1/8" to 7/8" (3mm to 22mm) wide. Inner cutters are heavily swaged and must be arranged so that the heavy portion falls in the gullets of the outside saws, as shown in fig 20(a)

Fig 20 (b) shows how the saws and cutters overlap, "A" being the saw and "B" being inside cutter.

A 4"(6 mm) groove is cut by using the two outside saws.

fitting the ground teeth directly opposite as shown in fig 20 (c) in order to allow clearance for the slight set of the saw

The dado head is secured to the saw spindle by means of a

special flange as shown in fig 21.

To fit dado head draw out sliding table as previously described remove riving knife complete with sawguard front saw flange and the in whit left hand thread socket head grubscrew from the end of the spindle.

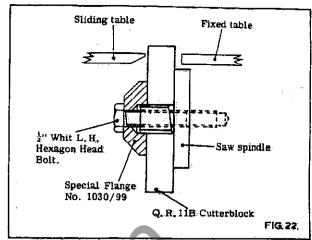
Fit the outer saws and required inner cutters on the spindle and lock in position with the special front flange and ?" whit

left hand thread hexagon head bolt supplied.
When the dado head has been secured to the saw spindle reduce the distance between the tables to a minimum clearance on the dado head.

When the job is completed with the dado head, replace the $\frac{1}{2}$ " whit left hand thread socket head grubscrew in the spindle

HOW TO FIT MOULDING CUTTERBLOCK.

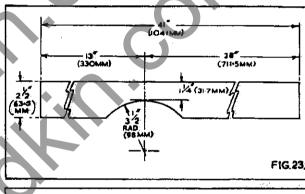
The cutterblock is 4.7/8" dia x 15/16" wide (124mm x 24mm) and takes 5/32" (4 mm) and $\frac{1}{4}"$ (6mm) thick cutters. The cutterblock is secured to the spindle by means of a special flange, as shown in fig 22. The procedure when litting the cutterblock is identical to that when fitting the wobble saw and dado set.

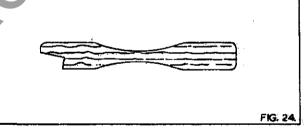


When using a cutterblock it is necessary to fit a wood facing to the fence so that only the required amount of cutter is exposed for the moulding or rebate being cut.

This facing is secured to the fence with wood screws through the holes provided. The sketch, fig 22, gives suggested sizes for this wood facing.

Before securing the knives in the cutterblock, always ensure that the slots and knives are free from sawdust and dirt.





SAFETY PRECAUTIONS.

Always adjust the guard to protect as much of the saw as possible and fit the riving knife 2" (6 mm) behind the saw at the rear. These adjustments are previously described.

Use a push stick as fig 24, as much as practicable when feeding timber to avoid accident.

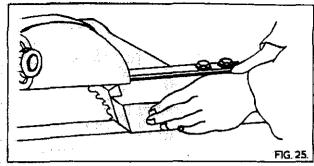
When changing equipment always isolate the machine

SAW MAINTENANCE.

Efficient operation of a circular saw depends on the true running of the saw spindle and the collars being perfectly square on the faces with the axis of the spindle, it must run at the correct peripheral speed to ensure straight cutting.

All Bursgreen circular saw benches embody these requirements and provided the sawblade is maintained in a sharp condition with the teeth correctly sharpened and set, efficient service will be given.

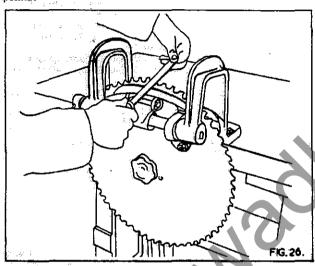
Before putting a new saw to use, it is essential that it is "ranged down" on the teeth, to ensure each tooth is cutting and to maintain true running.



RANGING

Ranging down should be done on a new saw or any saw after the fourth or fifth re-sharpening.

To range down a saw, feed a square edged abrasive block in wooden holder as shown in fig. 25, lightly against the saw teeth whilst running. The saw should then be removed and the tops of the teeth filed to remove the ranging marks on the points.



SAW SHARPENING

Do not run a saw when blunt, remove and re-sharpen To sharpen by hand, hold the saw rigid in a vice, as shown in fig 25, then proceed to sharpen the saw.

in fig 25, then proceed to sharpen the saw.

With rip saw teeth chisel edges and square faces are required see fig 27. Sharpen by giving each tooth an equal number of strokes with a flat faced saw file with rounded edges. At the same time tile the gullet, taking care to keep the gullet well rounded.

the gullet well rounded.

With a crossout saw, points are needed with back and front bevels as fig 28.

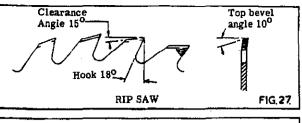
In the case of repeated filing the teeth loose the original shape and the guilets shallow. To restore the shape of each tooth, essential for satisfactory performance, it is necessary to grind the saw on a saw sharpening machine. These machines are usually of the automatic type and feed each tooth giving equal spacing or pitch.

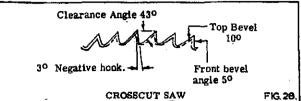
SETTING

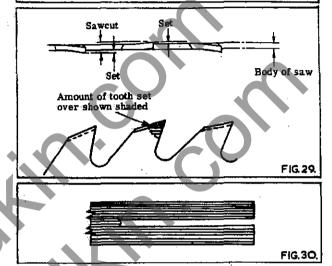
The amount of set to the teeth should be sufficient to give clearance to the body of the saw, so that there is freedom from friction between saw and timber. It is generally accepted that the teeth are "spring set" i.e. the tips of alternate teeth are bent to the left and right as shown in fig. 29. For good sawing the amount of set on each side of the saw must be identical, otherwise the saw will run to one side. To check the set, cut into a piece of wood a few inches when a small even triangle should be cut as in fig. 30.

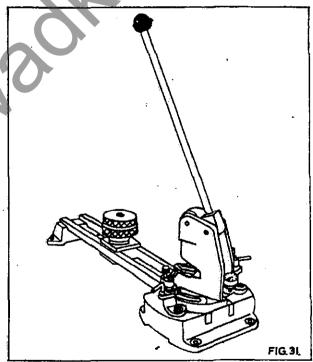
The exact amount of set each side varies with the timber being cut, usually .010" to .015" (.3 mm to .4 mm).

For clean cutting, just sufficient set should be allowed to prevent bending and heating. More set is required for wet woolly timber than for dry close grained timber and the amount of set is greater for crosscutting than for ripping.



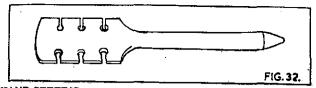






MACHINE SETTING

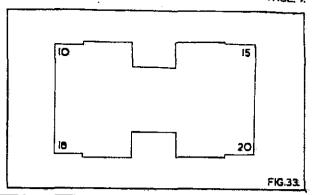
We can supply a small machine for efficiently setting the teeth, as illustrated in fig 31, and will deal with saws 8" to 36" (202 mm to 910 mm) diameter. The micrometer dial indicates accurate reading of the amount of set in thousandths of an inch.



HAND SETTING.

Where the number of saws does not warrant a machine being installed the saws can be set by hand using a tool as shown in fig 32. This tool is provided with notches to take saws 8 to 14 gauge thick, while the amount of "set over " is derived by using the gauge shown in fig. 33.

For this process of setting the saw should be securely clamped in a vice.



EXTRA EQUIPMENT

BS 121

A general purpose rip saw for hard or soft woods.

BS 124 For crosscutting or ripping with an exceptionally smooth finish.

B, S. 125 As above but hollowground.

B.S. 122

A general purpose crosscut saw



BS 123.

A general purpose hollow ground crosscut saw.



3S 129

For plastic materials.

This is our standard range of saws, normally available from stock. Hollow ground saws require no setting, give minimum saw kerf or wastage and ensure exceptionally clean finish.







EXPANDING GROOVING SAW OR DADO HEAD

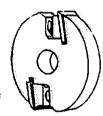
This tool is recommended for giving a smooth finish both with and across the grain in hard or soft woods. It comprises of two 8" (203 mm) diameter outer saws $1-\frac{1}{4}$ " (6mm), $2-\frac{1}{4}$ "(3mm) and $2-\frac{1}{16}$ " (1.5mm) inner cutters for grooves up to $\frac{7}{8}$ " (22 mm) wide, A special front saw flange no. 1030/43 is necessary for securing this head on to the saw spindle and should Solid H.S.S. in widths of up to 3" (76 mm) and H.S.S weided be ordered with the head.



WOBBLING OR GROOVING SAW,

This saw can be set to cut any width of groove between 1/8" and 1" (3 mm and 25 mm) and can be removed from the spindle without disturbing the setting, once set the saw and collars remain tightly locked on a screwed sleeve. Maximum depth of cut is 2" (50 mm)

A special washer no. 1030/97 is necessary for securing this head on to the saw spindle.



TWO KNIFE WEDGE TYPE CUTTERBLOCK, TYPE QRIIB

This cutterblock is of a simple design and made from nickel chrome steel for strength. Wedge type clamping of the cutters ensures maximum safety. The wedges and screws are easily removed for cleaning or replacing when worn. The block is 4.7/8" (124 mm) diameter x 15/16" (24 mm) wide and carries two 5/32" (4 mm) or \(\frac{1}{4}" \) (6 mm) thick cutters.

A special flange no. 1030/99 is necessary for securing this

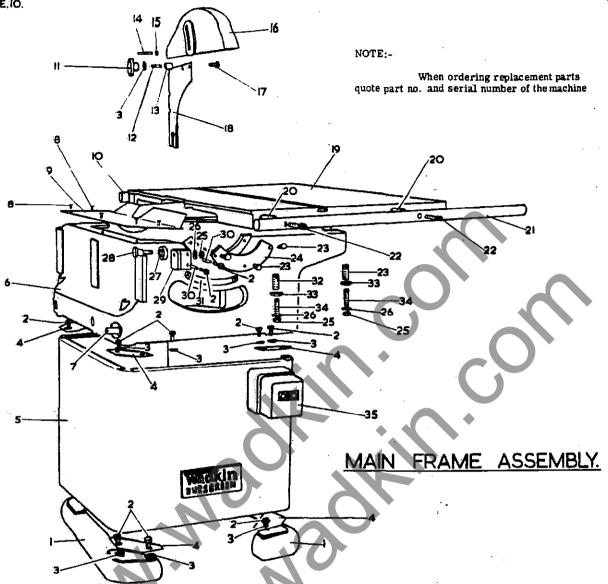
head onto the saw spindle.

SQUARE EDGE CUTTERS FOR CUTTERBLOCK, TYPE VZ

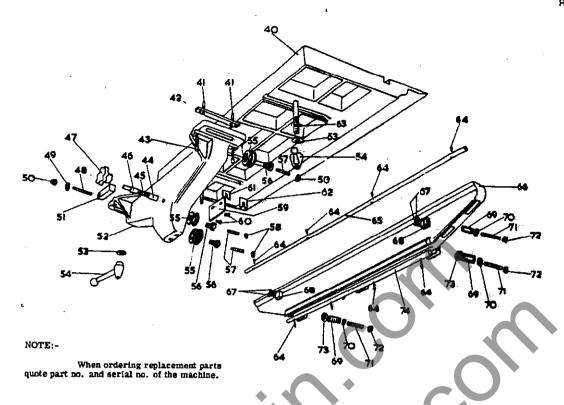
5/32" thick x 1½" long. (4mm): (38mm):		Solid High Speed Steel					
Width on cut		3++ 19mm	1" 25mm	1¼" 32mm			
Part No.		VZ	VZ1	V Z3			
$\frac{1}{4}$ " thick x $1\frac{1}{2}$ " long. (8mm): (38mm):	-	H.S.	S. welded to	o mild stee <u>l</u>			
Width on cut		3.0 19 mm.	1" 25mm	1¼" 32mm			
Part No.		VZ2	VZ21	VZ22			

to mild steel in widths up to 2" (50 mm) available in the bar.



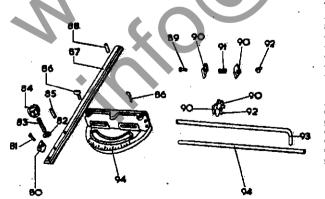


Ref. l	No. Part No.	No. off	DESCRIPTION.	Ref. No.	Part No.	No. off.	DESCRIPTION.
	- 1000 to				. 1000 (54		Warran attack on distance and as
1	C - 1030/6	3	Foot for base.	20	A - 1028/51	4	Fence slide bar distance piece.
2		19	3/8" whit x 3" long cadmium	21	B - 1028/52	1	Front fence bar (Standard)
		•	hexagon head bolt.		B - 1028/54	1	Front fence bar (50" capacity)
3		10	3/8" cadmium washer.		B - 1028/56	1	Front fence bar (37" capacity)
4		8	Corner fillets for base.	22		4	3/8" whit x 13" long socket head
-5	E - 1030/7	1	Base.				capscrew.
-6	E = 1041/15	1	Mainframe.	23		6	5/16" whit x 3" long cadmium
7		2	hore x 7/8" o/d x 3" long cilite	1			hexagon head bolt.
			bush.	24	C - 1026/7	2	Trunnion trapping plate.
8		5	4" whit x 3/6" long countersunk	25	•	6	3/8" whit nut
		44	head screw.	26		6	3/8" Washer.
-8	B - 1040/21	1	Under table finger guard.	27	6202 FF	2	Fischer sealed bearing
10	B - 1028/53	1	Back fence bar (Standard)	28	A - 1040/7	2	Outer roller pin.
	B ~ 1028/55	1	Back fence bar (50' Capacity)	29	B - 1040/3	2	Outer table roller bracket.
	B - 1028/57	1	Back fence bar (37" capacity)	30	,•	4	$\frac{1}{4}$ " dia x $\frac{3}{4}$ " long fluted dowel.
11	Patt No. 32	1	14" dia plastic handwheel, 3/8"	31	B - 1026/17	ĩ	Angle indicator rule.
		_	whit.	32	A - 1040/9	4	3" simplex adjuster for main
12		1	3/8" whit x 1" long stud.		12 1010,0	-	table.
13	A - 1026/60	1	Riving knife distance piece.	33	A - 1028/24	Δ	3'' simplex locknut.
14	15 454, 44	1	5/16" dla x 13" long groverlok	34	11 1000, 22		$3/8$ " whit x $2\frac{1}{2}$ " long stud.
		-	Spring dowel.	35	84 AD8	i	MEM starter (3 phase, 3 hp.
15	A - 1030/31	1	Sawguard pivot.	0.0	ur naa	•	50 cycles.)
16	C - 1030/10	ī	Sawguard.		AT 3	1	Brook starter (3 phase, 3 hp,
17	C - 1000/10	1	$3/8$ " whit $x \frac{1}{2}$ " long hexagon head	•	MI O	-	
4.		-				4	60 cycles.)
18	D 1000 (00		bolt.	-	ZT 3	Ţ.	Brook starter (3 phase, 5 hp,
19	B - 1030/80	1	Riving knife.				50 & 60 cycles.)
13	D - 1041/1	.	Main table.		ZVC	1	Brook starter (1 phase, 3 hp,
						<u>, </u>	50 cycle.)



SLIDING TABLE ASSEMBLY

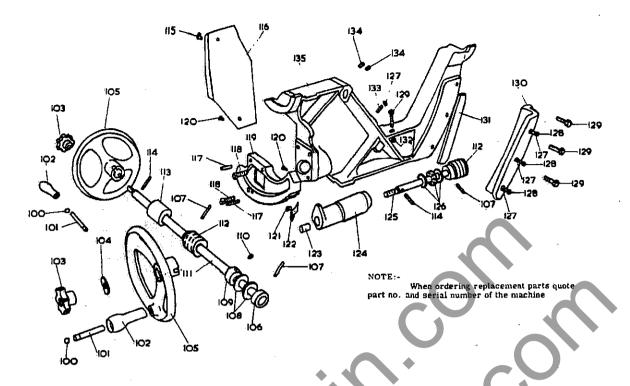
Ref. N	o. Part No.	No. off	DESCRIPTION	Ref. No. Part No.	No. off	DESCRIPTION.
40	D - 1040/34	1	Sliding table.	57	3:	5/16" whit: x 2" long stud.
41	=	-4	ኒ" dia x ኒ" long fluted dowel.	58:	3 .	5/16" whit nut.
42	A - 1010/8	2	Sliding table key	59 B - 1040/20	2	Roller Wiper bracket.
43	•	4	5/16" whit x 1" long socket head	60	4.	3/16" whit x 3/6" long round head screw
		_	capscrew,	81 A - 1028/13:	Ā.	Felt wiper
44	A - 1040/5	1	Table location plunger	82 A - 1028/16	4	Felt wiper trapping plate.
45	A - 1040/12	1	Table location plunger spring.	83	2	" whit x 2" long stud.
46		1	5/16" bore x " o/d x 1" long cilite bush.		B.	2BA x 4" long cheese head screw.
47	Patt No. 14.	1	2" dia plastic handwheel, 5/18" bore	85 B - 1040/4	ī	Slide bar (43" long)
48		1	" whit x 1½" long stud.	66 D = 1040/1	ī	Beam
49 -		1	10 Washer	87	4	I" whit x i" long countersunk head screw
50		ī	I' whit serotight.	68 A - 1028/10	2	Fibre table stop
51	A - 1040/6	i	Table plunger release arm	69 A - 1040/39	4	i" simplex adjuster for beam
52	E - 1010/2	1	Table roller bracket.	70:	4	3/8" washer
53	, -	2	" washer	71.	4.	$3/8$ " whit x $2\frac{1}{2}$ " long stud.
54	Туре3, 159	2	i" whit, "Kipp" handle, female thread.	72:	4	3/8" whit nut.
55	FG 3400	3	FBC Roller bearing	73 A - 1028/24	4.	i" simplex lockrut.
56	A - 1028/9	3	Eccentric roller bush	74 B - 1040/4	ī.	Slide bar (27 3/8" long)
		-		2,3 1010/4:	•	
				Ref No. Part No.	No. off	DESCRIPTION



MITRE FENCE ASSEMBLY

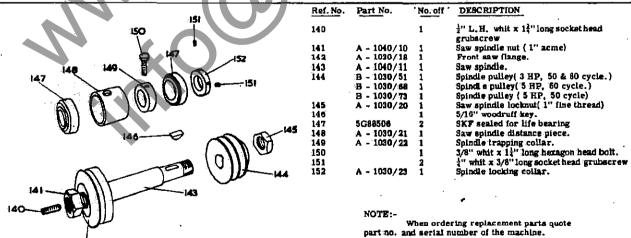
When ordering replacement parts quote part no. and serial no. of the machine.

NOTE:-

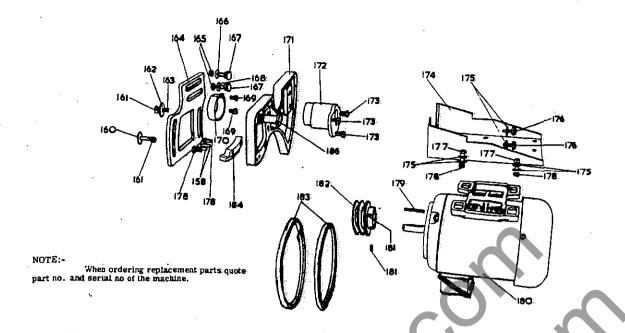


TRUNNION ASSEMBLY.

Ref. No.	Part No.	No. off.	DESCRIPTION.	Ref. No.	Part No.	No. off	DESCRIPTION.
100	5555 - 37	2	"Truzre" grip ring circlip.	119	D - 1030/11	1	Racked quadrant for canting.
101	A - S - 101	2	Spindle for 3" plastic handle.	120	A - 1028/33	1	i" gas pipscrew.
102	Patt No. 4	2	3" plastic handle.	121		1	" whit x 3/8" long round head screw.
103	Patt No. 14	2	2" dia plantic handwheel, j" whit T. R. T.	122	A - 1030/38	1	Angle indicator pointer.
104	A - 1026/2	2 2	Washer for handwheel.	123	6. 47.4	2	"bore x 7/8" o/d x 3" long oilite bush.
105	C - 1030/14		7½" dia dished handwheel.	124	B - 1026/6	1	R & F screw bearing
106	A - 1026/2	9 1	Canting shalt collar (without 3/8" whit hole	125	B - 1026/20	1	R & F shaft,
107		3	3/16" dia x 14" long groverlok spring dowel		EW }	i	Hoffmann thrust race.
108	A - 1026/6	5 2	Fibre washer for canting shaft.	127		4	i" whit locknut.
109	A - 1026/20	9 1	Canting shart coller(with 3/8" whit hole)	128		4	" whit x 1 l'long square head bolt.
110	•	1	3/8" whit x 1" long socket head grubscrew	129		3	3/8" whit x 1 1 long cadmium hexagon head
111	B - 1040/1	7 1	Canting shaft.				bolt.
112	A - 1026/3	2 2	Worm.	130	C - 1030/8	1	Motor bracket trapping piece.
113	A - 1040/10	8 1	Canting shaft distance piece.	131	A - 1030/28	1	Retaining strip for spindle housing.
114		.2	3/16" dis x 12" long groverlok spring dowel	132	•	1	" whit nut.
115		2	" whit x i" long cadmium hexagon head	133		1	; 🖥 whit x 1 🚾 long nicked grubscrew.
			bolt.	134		2	1/8" gas x ½" long socket head grubscrew.
116	B - 1030/20	5 1	Chip guard.	135	E - 1030/3	1	Trungion bracket.
117	•	2	5/16" dia x 1;" long groverlok spring dowe	Ł			
118		.2	3/8" whit x 12" long cadmium hexagon head		•		•
			boit.				
				Ref. No.	Part No.	No. off	DESCRIPTION



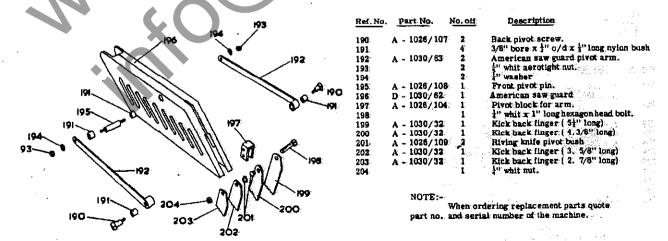
SAW SPINDLE ASSEMBLY

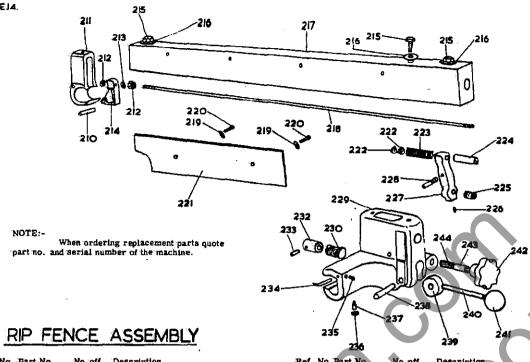


MOTOR MOUNTING ASSEMBLY

Ref. No	Part No. No.	o. olf	Description Ref. N	Part No.	No. off	Description.
160	A - 1030/81	1	Riving knife bracket trapping bolt. 180		1	Brook 66B motor, 3 HP, 3, 000 r.p. m.
161	•	2.	3/8" whit agrotight nut.			foot mounted (3 HP, 50 cycles)
162	A - 1024/58	1	Retaining washer		1	Brook 66B motor, 3 HP, 3, 600 r.p.m.
163		7	3/8" whit x 11" long stud.	— • • • • • • • • • • • • • • • • • • •	- 1	foot mounted (3 HP, 60 cycles)
164	C - 1030/78	ĩ	Riving knife bracket.			Brook D 100L motor, 5HP 3,000 r.p.m.
165	0 - 1000/ 10	2	3/8" whit rut.	. 4	4	foot mounted, (SHP, 50 cycles)
166	A - 1032/22	1	Riving knife washer	• •		Brook D 100L motor, 5 HP, 3, 600 r.p. m.
167	A - 1026/96	•			1.	foot mounted, (5HP, 60 cycles)
169	A - 1020/30	-	Bolts for riving knife 3/8" washer			
170	B - 1030/79:	1				Brook D100L motor, 3HP, 3000 r.p.m.
		1	Riving knife pivot bracket		_	foot mounted, (1 phase, 50 cycles)
171	C - 1030/105	1	Slide bracket. 181	Y	2,	5/16" whit x z" long socket head grubscrew.
172	C - 1030/106	1	Spindle housing 182	B - 1030/52		Motor pulley (3 HP, 50 cycles)
173		3	3/8" whit x 1" long cadmium hexagon head:	B - 1030/54		Motor pulley (3 HP, 60 cycles)
			balt.	B + 1030/72		Motor pulley (5HP, 50 cycles)
174	C - 1030/107	1	Motor piatform.	B - 1030/69	1	Motor pulley (5HP, 60 cycles)
175		12	3/8" cadmium washer	B - 1030/5). L	Motor pulley 24mm bore, (1 phase 50 cycles)
176		4	3/8" whit: x 1" long cadmium hexagon head buit 183	A 24	. 3	Fenner Vee belt (3HP, 50 & 60 cycles)
177		4	3/8" whit cadmium nut.	ALPHA 250	3 3	Fenner spacesaver Vee belt(5HP, 50& 60
178		6	3/8" whit x 14" long cadmium hexagon head bolt.			cycles)
179		ī.	3/16" wide x 12" long key. 184:	D = 1030/12	t. 1:	Racked quadrant for rise and fall.
		1	185		2	5/16" dla x 1" long groverlok spring dowel.
			186	A - 1030/2	7 Ī	Pivot pin for slide bracket.
	` _		100	14 - 4000/ 0	•	

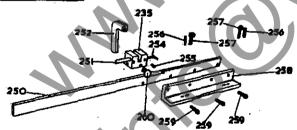
AMERICAN SAW GUARD ASSEMBLY (SPECIAL)





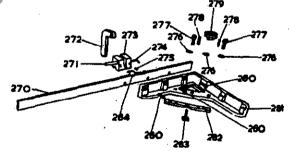
Ref. No.	Part No.	No. off	Description	Ref. No. Part No.	No. off	Description
210		1	3/8" dia x 14" long groverlok spring dowel	227 A - 1026/8 228 A - 1026/5 229 D - 1040/3	5 1	Rip fence front locking lever Rip fence front locking lever pivot Rip fence front bracket.
211	B - 1026/36	1	Rip fence back bracket	230 A - 1026/4'		Rip fence locking plunger
212		2	" whit nerotight nut.	231 A - 1026/4		Rip fence locking plunger spring,
213 214	B - 1026/37	1	3" double coil spring washer Rip fence back lock	232 A - 1026/4	3 1	Rip fence locking plunger bush.
215		Ì	3/8" whit x 2 "long bright cadmium hexagon head bolt.	233 234 A - 1026/54		t" dis x t"long groverlok spring dowel Rip fence pointer
216	٠.	3	3/8" bright cadmium washer	235	1	whit x 3/8" long socket head
217	C - 1030/30		Rip fence body	236		gruhecrew, 3/8" whit locknut
218 219	A - 1030/37	1	Rip feace connecting rod.	237 A - 1028/50		Rip fence locking plunger pipscrew
220		2	1" whit x 21" long round head screw	238 A - 1026/50		Rip fence cam pivot pin.
221	B - 1030/81	ī	Rip fence plate (Special to order only)	239 A - 1026/43		Rip fence locking cam.
222		2	in whit locknut	240 A - 1028/53		Rip fence locking handle.
223	A - 1044/89		Spring for fence locking bar.	241 Patt No. 28 242 Patt No. 14	*	1‡" dia plastic ball, 3/8" whit 2" plastic handwheel, 5/18" bore
224	A - 1026/48		Rip feace connecting rod nut	242 Part No. 14	1	
225	A - 1026/44	1	Rip fence locking lever adjusting screw		•	5/16" bore x i" o/d x i"long cilite bush
226		1	1" whit x 1/8" long socket head grubscrew	244 A - 1026/42	1	Rip fence pinion.

STRAIGHT CROSS CUT FENCE ASSEMBLY

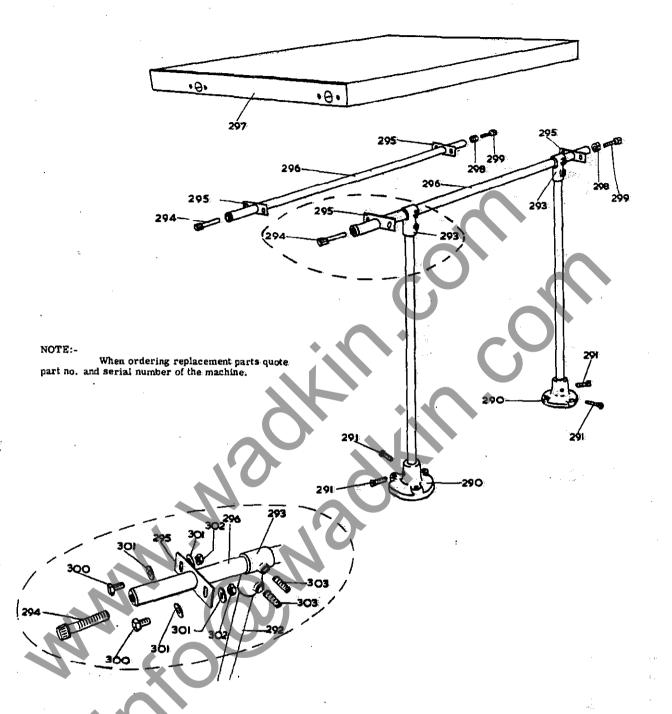


Ref. No.	Part. No.	No. off	- Description
250	A - 1040/38	1	Stop bar (Standard)
	A - 1040/40	1	Stop har (metric.)
251		1	5/16" diz x 2" long hardened and ground dowel.
252	A - 1028/26	1	Turn over stop.
.253	A - 1027/83	1	Turn over stop holder.
254	A - 1027/202	1	Pointer for turn over stop.
255	•	1	" whit x 3/8" long socket head grubscrew
256		2	4" dia. x 4" long fluted dowel.
257		2	3/8" whit x \(\frac{1}{2}\) long hexagon head bolt.
258	B - 1028/6	1	Short cross cut fence.
259	, -	3	5/18" whit x 1" long cheese head screw.
260	B-S-I-B	ĭ	3/8" whit hall lever screw.
	NOTE:-		•
	part no. 2	When o	rdering replacement parts quote number of the machine.

DOUBLE MITRE FENCE ASSEMBLY

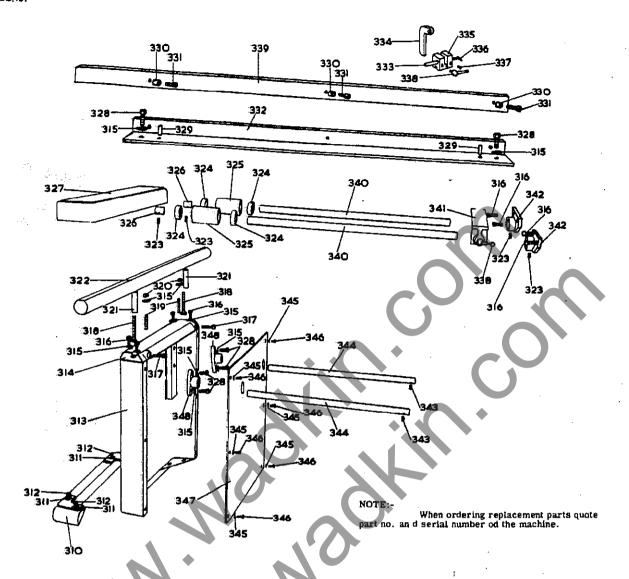


	Ref. No.	Part No.	No. off	Description
-	270	A - 1040/38	1	Stop bar (Standard)
		A = 1040/40	1	Stop bar (Metric)
- 1	271	•	1	5/18" dia. x 2" long hardened and ground dowel.
	272	A = 1028/26	1	Turn over stop.
	273	A = 1027/83	1	Turn over stop holder
į	274	A - 1027/202	1	Pointer for turn over stop.
w	275	•	1	1" willt x 3/8" long socket head grubscrew
	278		3	3/8" cadmium washer.
	277		.2	3/8" whit x {" long cadmium hexagon head boit.
	278		2	र्वा dia. x वै" long fluted dowel.
:	279	Patt. No. 32	1	13" dia plastic handwheel, 3/8" whit TRT
	280		3	5/16" whit x \frac{1}{4}" long cheese head screw.
	281	C - 1028/7	1	450 mitre fence.
	282	A - 1028/22	. 1	450 mitre fence tongue 450 mitre fence lock bolt.
	283	A - 1028/23	ī	
	284	B-S-1-B	1	(3/8" whit ball lever screw.



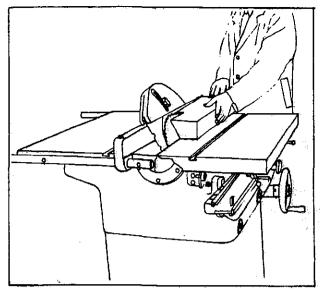
SHEET METAL EXTENSION TABLE ASSEMBLY (EXTRA)

					3	4.5	The state of the s
Ref. No	. Part. No.	No. off	Description.	Ref. No.	Part. No.	No. off	Description
290	A - 1026/85	2	Support feet for sheet steel: extension table.	296	A 1030/42	2	Tie bar for sheet steel extension
2 91		4	3/8" whit x 3" long square head.	297 298	D - 1030/39	1 2	Sheet steel extension table. 3/8" whit nut.
292	A - 1026/84	2	Support leg for sheet steel extension table.	299		2	3.8" whit x 1\frac{1}{4}" long socket head capscrew.
293	B: - 1026/99	2.	Tee filboe for sheet steel extension table.	300; 301:		8 16	$\frac{1}{4}$ " whit x $\frac{1}{4}$ " long hexagon head boilt.
294		2	3/8" whit x 14" long socket head:	302 303		8	4" whit nut 3/8" BSF x 3/8" long socket head
295	A - 1026/80	4	Adjuster plate for sheet steel				grubacrew.

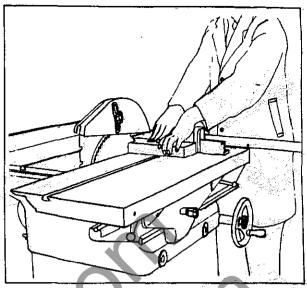


SLIDING EXTENSION TABLE ASSEMBLY

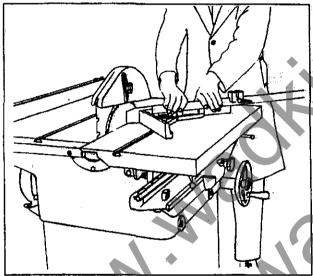
Ref. No	Part No.	No. off	Description	Ref. No.	Part No.	No.off	Description.
310	C - 1030/6	i 1	Foot for outer support	330	A - 1041/32	3	Distance piece for fence.
311		4	3/8" cadmium washer	331	, .	3	5/16" whit x 1" long cheese head
312		4	3/8" whit x 1" long cadmium hexagon	-			BCTEW
			head bolt.	332	C - 1041/36	1	Crosscut fence.
313	D - 1040/2		Sliding extension table outer support	333	•	1	5/16" dia. x 2" hardened and ground
314	C - 1040/2	5 1	Sliding extension table outer support				dowei.
			top.	334	A - 1028/26	1	Turn over stop.
315		12	3/8" washer	335	A - 1027/83	1	Turn over stop holder.
316		8	3/8" whit x 1" long hexagon headbolt	336	A - 1027/202	1	Pointer for turn over stop.
317		2	3/8" whit x 2"long square head bolt.	337		1	" whit x 3/8" long socket head
318		2	" whit x 3½" long hexagon head bolt.				grubscrew.
319		2	3/8" whit x 2" long stud.	338	B. S. 1-B	2	3'8" whit ball lever screw.
320	v	2	3/8" whit nut.	339	B - 1041 '24	1	Long stopbar,
321	A - 1041/6	2	Pillar for outer rail.	340	A - 1040/31	2	Sliding extension table top tie bar.
322	3 - 1040/3	0 1	Sliding extension table rail.	341	C - 1040/27	1	Sliding extension table adjustable
323		4	3/8" whit x : long socket head				table.
	4 4		grubscrew.	342	B - 1028/34	2	Tie bar bracket
324	SN. 2075	4	Fischer single seal bearing	343		2	3/8" whit x 1" long socket head
325	B = 1040/2	9 2	Sliding extension table roller.				grubecrew.
326	A - 1040/3	3 2	Sliding extension table roller distance	344	A - 1040/32	2	Sliding extension table bottom tie bar.
			piece.	345			🕌 whit x 🛂 long hexagon head bolt.
327	C - 1040/2	4 1	Sliding extension table top.	346			"light weight washer
328		6	3/8" whit x ;" long hexagon head bolt.	347		. 1	Panel for outer support.
329		2	"dia x "long fluted dowel.	348	B - 1040/26	2 /	Lower tie bar bracket.



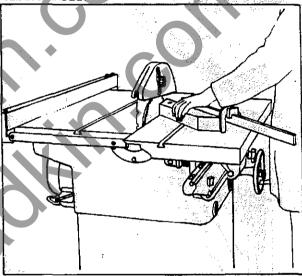
STRAIGHT OR BEVEL RIPPING.



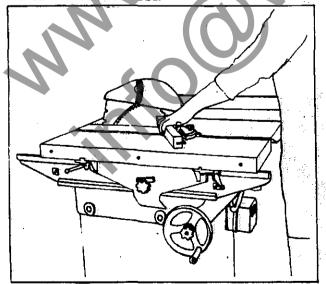
STRAIGHT CROSS CUTTING USING FENCE ON SLIDING TABLE.



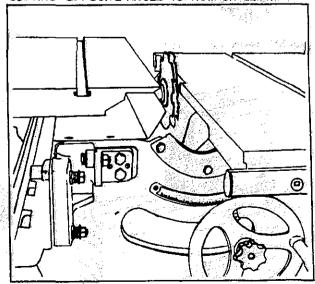
MITRE CUTTING USING BACK OF DOUBLE MITRE FENCE AND SLIDING TABLE.



FRONT OF DOUBLE MITRE FENCE IS USED FOR CUTTING OPPOSITE ANGLE TO THAT ON LEFT.

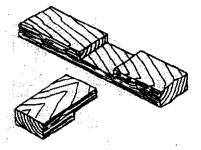


COMPOUND MITTE USING SWIVELLING MITTE FENCE IN TABLE GROOVE.

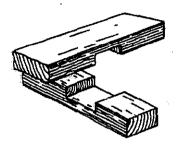


SLIDING TABLE DRAWN BACK TO SHOW FITTING OF DADO SET

THE ILLUSTRATED JOINTS CAN BE READILY DONE ON THIS MACHINE, SOME MAY REQUIRE SIMPLE JIGS.



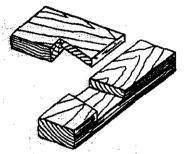
TEE HALF LAR



MIDDLE HALF LAP.



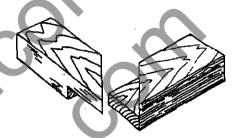
END HALF LAP



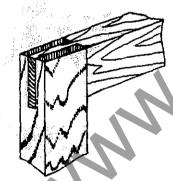
DOVETAIL HALF LAP (ONE SIDE ONLY).



DOVETAIL HALF LAP



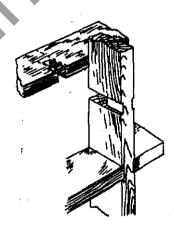
MITRED FACE WITH HALF LAP



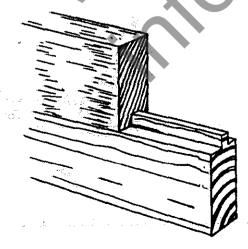
OPEN MORTISE & TENON.



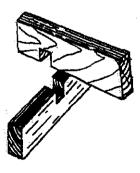
TENONS.



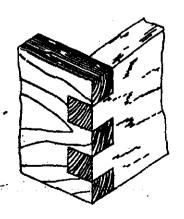
LAPPED JOINT WITH GROOVE (USEFUL FOR SHELVING).



TONGUE & GROOVE



MIDDLE HALF LAP



BOX JOINT.