**BOOK No.** B415.

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

# 20" BZB

## 20" Bandsaw

Diameter of Saw Pulleys.
Width of Saw Pulleys.
Maximum width of Saw.
Maximum length of Saw.
Minimum length of Saw.
Maximum depth under Saw Guide.
Distance Saw to Body.
Size of Table.
Table cants.
Height of Table from Floor.
Overall height of Machine.
Speed of Saw.
H.P. of Motor (Standard).
Speed of Motor - 50 cycles.
60 cycles.
Net Weight.

20"
1½"
1½"
12'9"
12'2"
13"
19½"
22" x 24"
45 to right.
38"
79"
5210 ft/min.
2HP
1,000rpm
1,200rpm
620 lb.

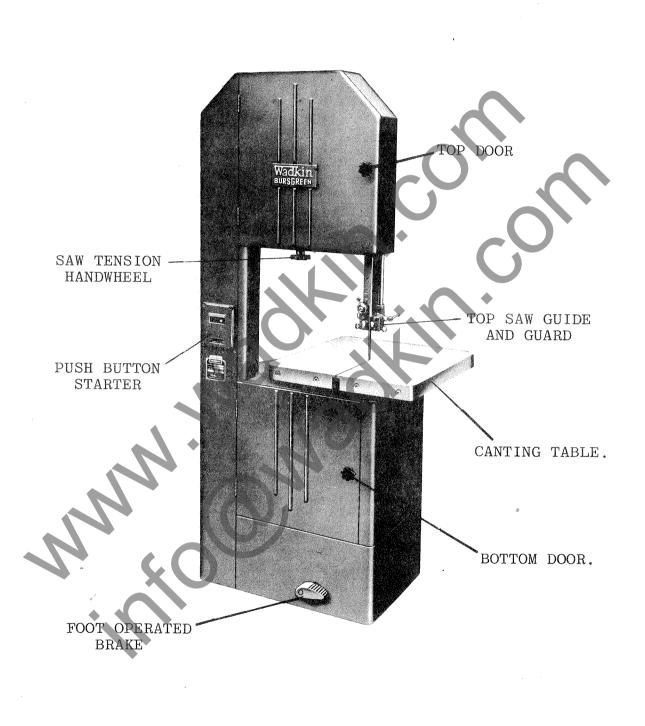
500mm
40mm
25mm
3890mm
3700mm
330mm
495mm
560 x 610mm
10 to left.
965mm
2000mm
1590 m/min.
2CV.
1000rpm
1200rpm

271 kg.

For Replacement Parts, Tools & Accessories, Contact Brian Stacey, Bursgreen (Durham) Ltd., Fence Houses, Houghton~le~Spring, Tyne~Wear DH4 5RQ, England.

Telephone: Fence Houses 2385 (5 Lines)

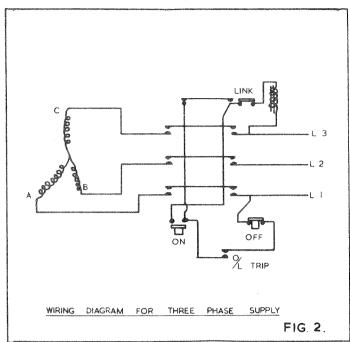
Telex: 53441 (Bursgreen Duram)



#### INSTALLATION

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

When the machine is cased for export the table is removed and packed individually. 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.

#### Points to note when connecting to power supply

- 1. Check the voltage, phase and frequency corres pond to those on the motor plate, also correct coils and heaters are fitted
- starter.

  2. It is important that the correct cable is used to the starter as to give the correct voltage to the starter as running on low voltage will damage the motor. Check the main line fuses are of the correct
- 3. Check the main line fuses are of

- 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 the motor for the correct direction. If this is incorrect reve any two of the line lead connections.

  For single phase supply refer to booklet supplie with the starter for wiring details.

VOLTAGE	7	PHASE	S.W.G.	TINNED	AMPS
			COPPER	WIRE	
550, 400/440, 380	/420	3	25		15
340/380	,	3	25	•	15
220	a'	3	2.2	!	24
200/250	•	1	18	!	45

#### LUBRICATION

It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting. Clean sawdust from inside main frame weekly. See Fig. 3.

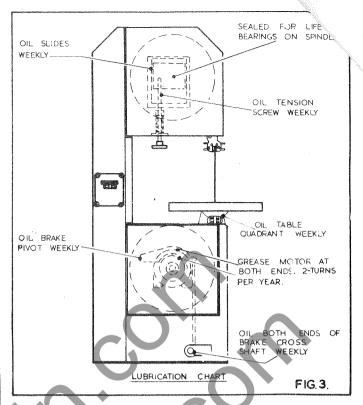
POWER EM. 125. TYPE OF OIL RECOMMENDED TYPE OF GREASE RECOMMENDED SHELL ALVANIA 3.

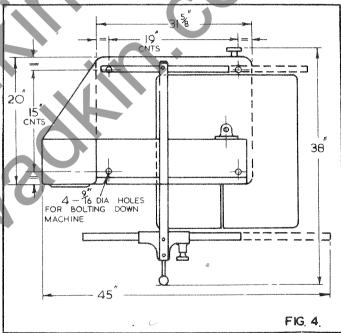
#### FOUNDATION

See Fig. 4 for bolt positions and clearance required. When installing the machine level the table by packing under the base. Foundation bolts are not supplied with the machine except by special order.

#### DUST EXTRACTION

The machine has a built in dust chute with a  $3\frac{3}{4}$ " (95 mm) x  $2\frac{1}{2}$ " (64 mm) rectangular exhaust outlet and can be connected to main dust extraction plant if desired.



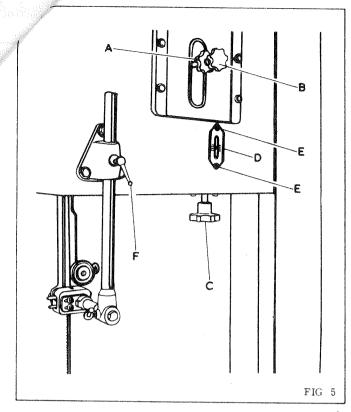


#### FITTING BANDSAW BLADES

Proceed as follows:

- 1. Open top and bottom doors of the main frame and ensure the table is in the horizontal position.
- 2. Loosen the wingnuts on the underside of the table directly below the slot at the front of the table. Swing table keep plate clear of the slot so the sawblade can be inserted.
- 3. Remove sawguard and move the top and bottom guides to the extreme rear position by loosening the locking screws "A" for top guide in Fig. 6 and "A" for bottom guide in Fig.8.
- 4. Lower top wheel assembly sufficient to allow the blade to be placed on both wheels easily.
- Insert sawblade through the slot in front of table and position blade on top and bottom wheels. Care should be taken to ensure that the blade is free in the guides. Check the cutting rake of teeth are positioned downwards at the cutting point. To reverse direction of \* cutting rake turn blade inside out.

Turn tensioning headwheel until blade is just held on the wheels.



#### TRACKING OF SAWBLADE ON WHEELS

Every sawblade has slightly different running characteristics on a bandsaw machine due to the condition of the steel ribbon it is made from, the blade joints and the tension in the blade ribbon. This is compensated by using a crowned or slightly curved rubber face on the wheels and providing the top wheel with a slight titling movement.

To check the tracking of the sawblade the undermentioned procedure should be followed.

- 1. Rotate the top wheel slowly by hand in a clockwise direction and check the blade is running central on the wheels.
- 2. If not running central loosen handwheel "A" in Fig. 5 and adjust handwheel "B" until the saw is tracking correctly i.e. in the centre of both wheels.
- 3. When tracking correctly re-lock handwheel "A". This adjustment is most important as when the sawblade is tracking correctly it passes in a straight line between the top and bottom wheels and does not snake. When the latter occurs the back of the sawblade keeps hitting the back guide roller and woodwork resulting in damaged guides.

#### TENSIONING (

To tension the sawblade turn the handwheel "C" in Fig. 5 until the correct tension is reached according to the scale "D" The scale gives the correct tension for the width of blade which is being used irrespective of the length of the blade.

Incorrect tension or tightness of the sawblade over the wheels will result in saw breakages so always use tension indicator to achieve maximum blade life.

The scale and pointer are accurately set before despatch from the works. Should this be displaced for any reason check the scale by the undermentioned procedure.

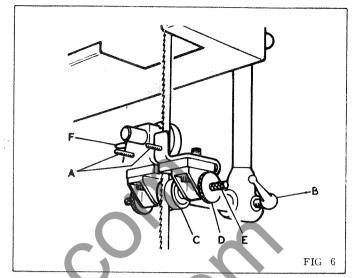
- 1. Tension the sawblade as previously described until it can be pulled  $\frac{1}{4}$  (6mm) from its true line at a central point between the two wheels.
- 2. Check whether the scale indicates the correct sawblade width. If scale is incorrect loosen the two screws "E" in Fig. 5 and position scale correctly. When set tighten all screws. After the scale has been set in this manner it will read correctly for any width of blade within the range of the machine without further alteration, even if the length of sawblade varies for any given width.

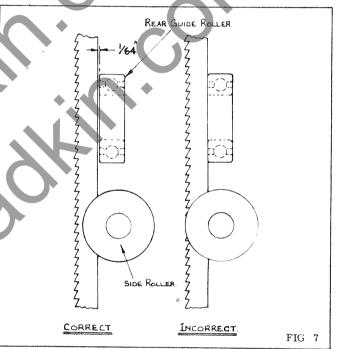
For a  $\frac{1}{2}$ " blade the pointer should read  $\frac{1}{2}$ " etc. If the machine is left standing for a period e.g. overnight, the tension should be reduced, and the blade re-tensioned before putting the machine into operation again.

#### SETT ING GUIDES

On this machine, guides are fitted above and below the table and are similar in design. Each guide is fitted with long life roller bearings.

After the blade is tracking perfectly proceed to set the guides as follows:





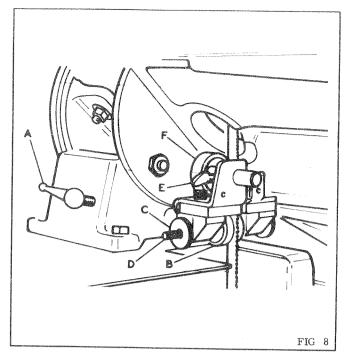
#### TOP GUIDE ASSEMBLY

- 1. Loosen 2 knurled nuts from studs "A" in Fig. then remove sawguard.
- 2. Bring guide assembly forward by loosening ball lever screw "B" until side roller guides "C" are positioned just behind the gullet of the sawblade as shown in Fig. Relock complete guide assembly in this position
- 3. Set the side roller guides "C" just clear of the sawblade by loosening the knurled locknuts "D" positioning guides by means of knurled adjusting screws "E", then relock locknuts "D".

Positioning the side roller guides as above ensures that support is given to the sawblade but guides do not nip blade.

NOTE: Care should be taken when setting guides so as not to displace sawblade from its true vertical position.

- 4. Loosen thumbscrow "F" and position rear roller guide "G" to within 1/64" (.4) m) from the back of the sawblade in its free position. Relock in position by thumbscrew "F".
- 5. Replace sawguard complete with 2 knurled nuts on studs "A".



#### BOTTOM GUIDE ASSEMBLY

1. Bring guide assembly forward by loosening ball lever screw "A" in Fig. 8 until side roller guides "B" are positioned just behind the gullet of the sawblade as shown in Fig.

Relock complete guide assembly in this position.

2. Set the side roller guides "B" just clear of the sawblade by loosening the knurled locknuts "C", positioning guides by means of the knurled adjusting screws "D" then relock locknuts "D".

Positioning the side roller guides as above ensures that support is given to the sawblade but guides do not nip blade.

NOTE: Care should be taken when setting guides so as not to displace the sawblade from its true vertical position.

3. Loosen thumbscrew "E" and position rear roller guide "F" to within 1/64" (.4mm) from the back of the sawblade in its free position. Relock in position by thumbscrew "E".

#### BRAKE

The brake is operated by depressing the foot pedal as shown in Fig. 1. This actuates the brake rod and forces the brake shoe against the bottom wheel hub.

The brake should only be applied after the stop button has been pressed.

#### TABLE

The table cants 45° to the right and 10° to the left.

#### FOR RIGHT HAND CANT :-

- Loosen the table locking lever "A" in Fig. 9
- 2. Cant table until required angle is reached. The locking lever locks both front and rear trunion plates simultaneously, this gives perfect rigidity to the table.

#### FOR LEFT HAND CANT :-

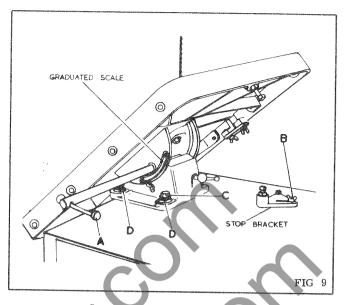
- 1. Loosen wingnut "B" in Fig. 9 and swing stop bracket clear of the stop screw in the table.
- 2. Loosen the table locking lever "A" and cant table until required angle is reached. Lock table in position.

The table is set square to the sawblade, from front to rear, before despatch from the works. Should this setting be disturbed for any reason check by the undermentioned procedure.

- Ensure the top and bottom guides are clear of the blade so that it is not restricted in any way.
- 2. Check the blade is tracking correctly i.e. running in the centre of each wheel. (See instructions under "Tracking of Sawblade).

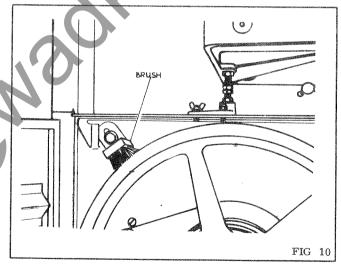
3. Check the blade for square to the table by means of a steel square.

If adjustment is necessary loosen the 4-3/8" whit bolts "C" in Fig. 9 and adjust the two fine thread adjusters "D" until table is correctly set. When set tighten all screws.



To check the 90° positive stop follow the undermentioned procedure.

- 1. Ensure the top and bottom guides are clear of the blade so that it is not restricted in any way.
- 2. Check theblade is square to the table by means of a steel square after ensuring that the stop bracket is in the correct position and the adjustable stop screw in the table is hard up against this bracket. If necessary adjust the bolt in the table and re-check. When set tighten all screws. Check the pointer is correct to the graduated scale and adjust if necessary.



#### SAW WHEELS

A brush as shown in Fig. 10 is provided on the bottom pulley to remove sawdust, whilst the rubber on the top pulley should be cleared daily toprevent accumulation of sawdust which could cause the blade to run out of a true line.

Badly worn pulleys should be replaced by new ones. If the machine is used with badly worn pulleys the saw will vibrate. resulting in bad sawing and saw breakages.

We have a service arrangement, which we recommend whereby newly rubbered pulleys can be supplied against the return of existing pulleys. An appropriate charge being made for re-rubbering only. To avail yourself to this service return existing pulleys to:

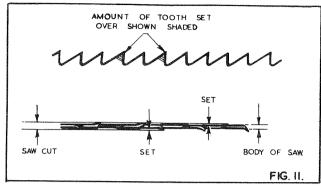
BURSGREEN (DÜRHAM) LIMITED FENCE HOUSES TRADING ESTATE, HOUGHTON-LE-SPRING CO. DURHAM.

#### MOVAL OF SAW WHEELS

The top and bottom wheels are identical. To remove a wheel for re-rubbering unscrew the four 3/8" whit. nuts around the hub and remove wheel complete leaving the hub on the machine.

#### MAINTENANCE OF BANDSAW BLADES

A properly sharpened bandsaw blade will give clean, accurate cutting and this is achieved by proper setting and sharpening of the teeth. Always set the teeth before sharpening.



#### SETTING

In order to cut satisfactorily bandsaw teeth must be set by bending the teeth alternately out of the line of the blade. This presents alternate pairs of teeth, wider than the thickness of the ribbon and prevents the ribbon rubbing in the wood being cut and getting hot.

There are two usual ways of setting bandsaw teeth depending generally upon the amount of work to be done.

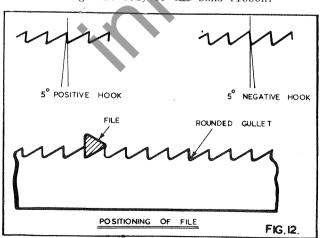
#### 1. HAND SETTING

HAND SETTING
The points of the teeth are set by using a hand of the teeth must be set and as a general rule the set on each side is .010" (.3 mm). Set is applied in opposite directions for each alternate tooth.

Where hand setting is employed it cannot be ensured that all the teeth are cutting and in order to overcome this the teeth should be stoned occasionally. An ordinary fine grit stone is used and the back runner guides should be temporarily brought forward until it is in contact with the back of the blade. The blade should then be run and the stone carefully applied to the teeth each side of the blade. When the saw is subsequently sharpened it will be noted that each tooth has not been marked with the stone, and such teeth should only be filed very slightly. The remainder of the teeth which have actually been stoned should be filed in the normal manner until the flat caused by the stone disappears. Bandsaws may require stoning approximately once to every six sharpenings. Where hand setting is employed it cannot be

#### 2. MACHINE SETTING

2. MACHINE SETTING
A setting attachment can be supplied to special order for fitting to the standard grinding machine as shown in Fig. 23. Also recommended is the separate inexpensive setting machine as shown in Fig. 25. A feature of this machine is that the strikers which push the teeth over are arranged on opposite sides of the blade, and strike adjacent teeth simultaneously. In this way the shock of the two strikers cancel each other out, and does not damage the body of the band ribbon.



#### SHARPENING

This is normally done by using a triangular section file. Again this operation can be done by hand or machine.

#### HAND FILING

It is essential to employ an efficient and quick acting vice and round cornered triangular file, both as illustrated in Fig. 20 and 21.

The face of each tooth should be filed across The face of each tooth should be filed across and with the same stroke the back of the following tooth should be filed at the same time. One stroke of the file should be sufficient to sharpen each tooth, and this stroke should be as light as possible in order to avoid producing a burr. shape of the gullet is automatically maintained at 60° by the file, which the angle of the hook on the tooth is dependable on the position of the file. For general work approximately 5° of positive hook should be given. A greater or smaller hook should be applied for soft or harder woods respectively. In the case of particularly hard woods a negative rake may be necessary, while a wider tooth pitch than standard may be required for sawing timbers

than standard may be required for sawing timbers of an abrasive nature, and those containing gum. Always sharpen square across the face of each tooth and NOT on the bevel, otherwise the saw will vibrate violently, which shatters the steel, and cracks appear causing saw breakages.

Use a file with rounded corners and of triangular section. It is important to keep the gullet of each tooth rounded otherwise cracks will soon appear. Saws must be sharpened at regular intervals and should never be forced to cut with teeth which have become blunt. which have become blunt.

E: When reconditioning bandsaw blades it is necessary to set the teeth first before sharpening. This ensures that the face of the tooth is square. If the sharpening was carried out first, the subsequent setting would result in an angular tooth shape being obtained.

MACHINE FILING

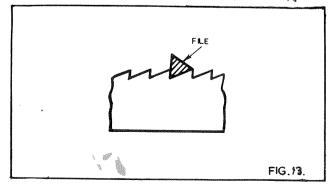
A sketch of the automatic machine for filing blades is given in Fig. 22. Further details of this machine will be forwarded on request.

- GENERAL CAUSES OF SAW TROUBLE
  1. Crystallisation of the ribbon, produced by the back of the saw rubbing against the back runner guide. The disc should revolve only by contact with the back edge of the saw when actually
- Using a blade that is too wide for the radii being cut. In attempting to cut a small curve with a saw too wide the blade tends to twist against the guides causing friction and overheating which destroys the temper in the steel. Not enough set.
- Sharpening with a sharp cornered file. See
- Bad brazing due to dirty joints or badly prepared laps or incorrect positioning of the laps, causing a bump on the back of the blade

at the joint.
See Fig. 24 for an efficient bandsaw brazer.

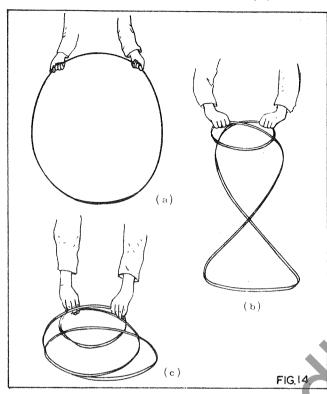
#### SMALLEST RADII WHICH MAY BE SAWN WITH GIVEN WIDTH OF BLADE

WIDTH OF BLADE	1/8"	3/16"	1.11	3/8"
MINIMUM RADIUS	1/8"	5/16"	5/8"	1.7/16"
WIDTH OF BLADE	12"	5/8"	3 11	1"
MINIMUM RADIUS	21/2"	3 <del>3</del> "	5.7/16"	71 "

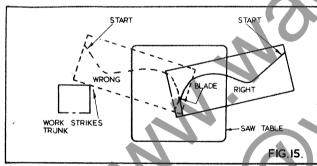


FOLDING BANDSAW BLADES
Bandsaw blades are folded in thirds. This is done by holding the blade firmly in both hands with the palms upwards as shown in Fig. 14(a). Turn the hands over, this will twist the blade, as shown in Fig. 14(b). Don't let the blade slip or turn in Fig. 14(b). Don't let the blade slip or turn in the hands. The blade will almost automatically fall into three loops.

The blade should be kept in a safe dry place.

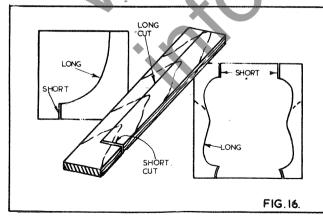


HINTS ON CUTTING

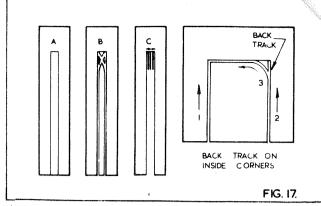


(a) WATCH FEED DIRECTIONS - See Fig. 15.

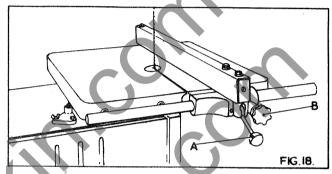
Mentally follow the path of the cut before actuating the work. If not started properly many pieces of work will foul against the trunk of the machine.



MAKE SHORT CUTS FIRST - See Fig. 16. When a choice of starking points is offered always make short cuts first. Back tracking out of a short cut can be done much more quickly than backing out of a long cut.



BACKTRACK ON CORNERS See Fig. 17.
narrow grooves must be nibbled as shown at A.D.C. On other inside corners, cut to the corner and then backtrack to lead the blade over to second line.



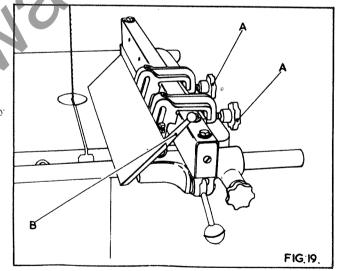
PLAIN FENCE (TO SPECIAL ORDER)

The fence can be used on either side of the saw depending on the position of the slide bars and is provided with rapid or micro-adjustment.

For rapid adjustment lift lever "A" in Fig. 18 and pull handwheels "B" out of the fence bracket

and pull handwheels 'B" out of the fence bracket and position fence where required. Re-lock fence by depressing lever "A".

For micro-adjustment lift lever "A" and push handwheel "B" into the fence bracket. This engages the pipion in the rack. Turn handwheel "B" until the required position is reached and re-lock fence in position.



CANTING FENCE (TO SPECIAL ORDER)

This type of fence can be used on either side of the saw. It is fitted to the body of the standard plain fence, by two handwheels "A" shown in Fig. 19. Care should be taken not to lock the handwheels too tightly so the plain fence is not damaged.

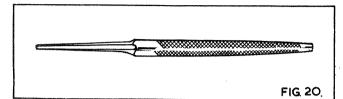
To cant fence loosen lever "B", cant to required angle and then lock lever "B".

To reverse fence for prosite side of saw remove lever "B" and washer, slide out pivot stud complete with aerotight nut and special flanged washer. Slide into opposite end and replace lever "B" and washer.

#### BANDSAW BLADES

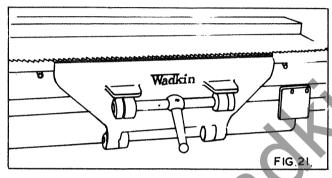
Spare bandsaw blades of the correct length, ready set and sharpened, for wood cutting are available from stock. Where it is preferred bandsaw blading in strip form can be supplied for customers to make up their own blades. This band saw strip is offered either toothed only or toothed. sharpened and set.

In addition to woodcutting we can supply bandsaw blades for plastics, bonded wood, non-ferrous metals, meat, etc. provided that the correct machine speeds are available.



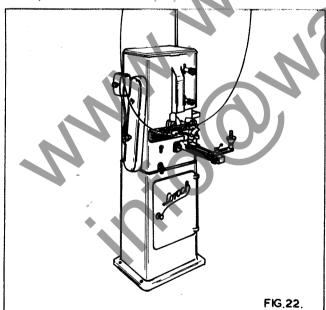
#### TAPER TRIANGULAR FILES FOR HAND USE

to produce the round gullet which prevents saw



#### BANDSAW FILING VICE

A specially designed vice for holding band of the saws also handsaws. Jaws are  $17^{\circ}$  (430 mm) long and will take saws up to  $2\frac{1}{2}^{\circ}$  (64 mm) wide. Jaws open instantaneously by lever handle.

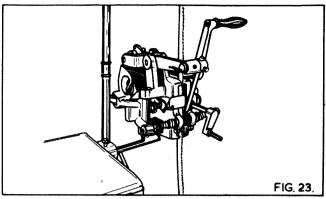


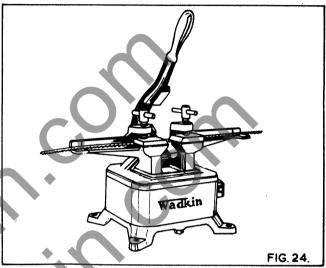
#### WADKIN "LOROCH" BANDSAW GRINDER TYPE "HH"

This machine is fully automatic and ensures that each tooth is sharpened to the correct shape and depth.

Any length of saw can be filed up to a maximum width of 2.3/8" (60 mm) with teeth up to 1.3/16" (30 mm) pitch and  $\frac{3}{4}$ " (19 mm) deep.

A setting attachment can be supplied to special order for fitting to the machine as shown in Fig. 23. Bandsaws of any length up to 2" (50 mm) wide and 5/8" (16 mm) pitch can be set using this attachment.

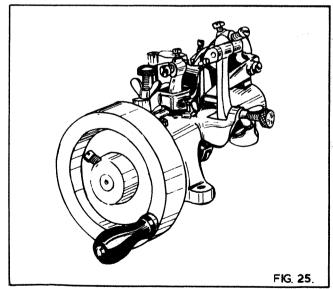




WADKIN ELECTRIC BANDSAW BRAZER TYPE "HE"

This machine efficiently brazes bandsaws, from the two ends of the saw are firmly held by the clamps, and controlled heat applied electically. The two ends of the saw are firmly held by the clamps, and controlled heat applied electically. A small quantity of solder and brazing compound are supplied with the machine. The actual brazing takes from 25 to 45 seconds according to the width of blade. Before brazing the ends of the sawblade must be carefully bevelled.

A separate instruction chart is used with the razer.

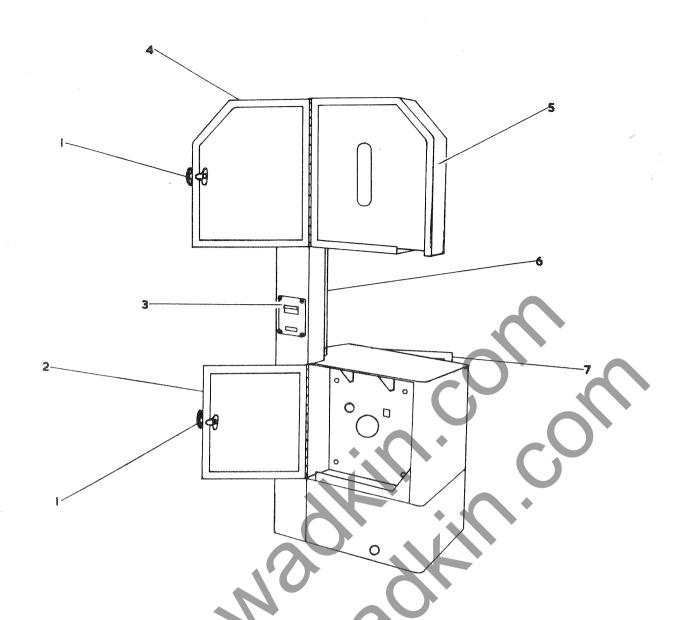


WADKIN, BANDSAW SETTING MACHINE TYPE B/SS For bandsaws up to  $1\frac{1}{4}$ " (32 mm) wide x ½"

(13 mm) pitch.

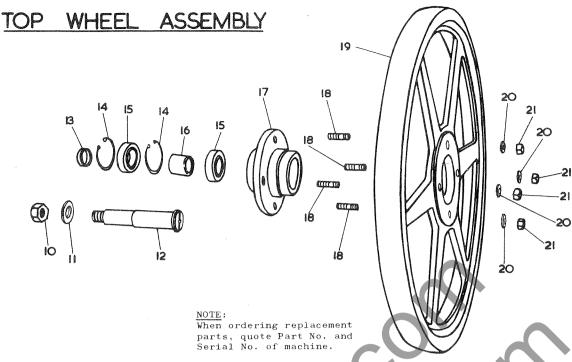
All adjustments are quickly and easily made to this robust and thoroughly practical tool. It is usually operated by hand and setting is at the rate of two teeth per revolution of wheel. When preferred the machine may be power driven by a flat belt on the pulley face of the handwheel.

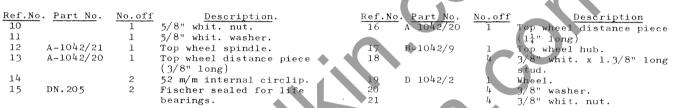
Brake Cables	Grease	Pneumatic Lubricators	General Lubrication	Worm Boxes	•	Application
Brake cable grease	Spheerol AP.3	Hyspin AWS 32	Magna ED	Alpha 617	Castrol	
Energrease L21M	Energrease Ls.3	Energol HL 65	Energol HP.20	Energol CS425	В. Р.	
Alvania 3	Alvania 3	Tellus 27	Vitrea 33	Vitrea 75	Shell	Approved Lubricant
Multi-purpose grease H	ω.	Nuto H 44	Esstic 50	Pen-O-Led E. P.3	Esso	ubricant
	Regal	Rando Oil HDA	Ursa Oil P. 20	Regal Oil J	Texaco/ Caltex	
	L.6.		L. 4.	L. 2.	Wadkin	•
	Brake cable Energrease Alvania Multi-pur grease H	e Spheerol Energrease Alvania 3 Beacon 3 Regal Starfak Premium 3 Premium 3 Starfak Premium 3 Premium 3 grease H L21M Starfak Premium 3 Premium 3 Regal Premium 3 Premi	natic cators AWS 32  Energol HL 65  Energrease Alvania 3 Beacon 3 Starfak LS. 3  Brake cable grease L21M  Energrease Alvania 3 Multi-purpose Starfak Premium 3  Gil HDA  Rando Oil HDA  Oil HDA  Alvania 3 Beacon 3 Starfak Premium 3  Grease H	ral Magna ED Energol Vitrea 33 Esstic 50 Ursa Oil HP.20  matic AWS 32 HL 65 Tellus Nuto Rando Cators AWS 32 Energrease Alvania 3 Beacon 3 Starfak Premium 3  Brake cable Energrease Alvania Multi-purpose grease H 21M grease H	Alpha 617  Energol CS425  Vitrea 75  Pen-O-Led Regal E. P.3  Oil J  Witrea 33  Estic 50  Ursa Oil HP.20  Energol Energol Ferergol Ferergol Energol Ene	Castrol B.P. Shell Esso Caltex Caltex  Alpha 617 Energol CS425 Vitrea 75 Pen-O-Led Regal E.P.3 Oil J  Alpha 617 Energol Vitrea 33 Esstic 50 Ursa Oil J  AWS 32 Energol Cation  Brake cable grease L21M  Alvania 3 Esstic 50 Ursa Oil P. 20  Alvania 3 Escon 3 Starfak Premium 3  Gil HDA  Alvania 3 Esstic 50 Ursa Oil P. 20  Alvania 3 Escon 3 Starfak Premium 3  Gil HDA  Gil HDA

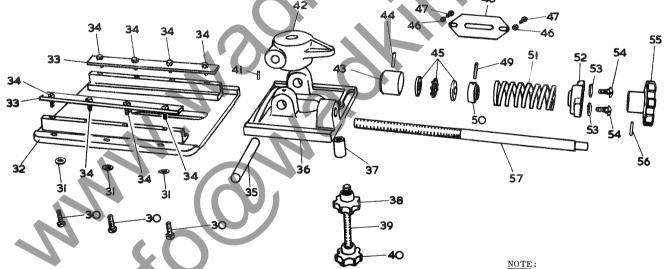


## MAIN FRAME ASSEMBLY

Ref. 1 2 3	No. Part No. T.44.RE Non locking. T.44.LE Non locking. 44ADS/FO 84ADS/FO	No. off 2 1 1 1	Handle for door (top and bottom door). Handle for door (rear door). Bottom door. MEM starter (standard 50 cycle; 2HP, TEFC,50cycle. MEM starter (3HP drip proof 50 cycle; 3HP, TEFC	4 5 6 7	Part No. E-1042/1	No.off 1 1 1 1	Description Top door. Main frame. Cover for saw Rear door (special on 1PH machines).
	ZT3	1	50 cycle). Brook starter (2HP, 1PH, 50 cycle; 2HP, 1PH 60		NOTE:		
	AT3	~	cycle). Brook starter (2HP, Drip proof, 3HP, 60 cycle; 3HP, Drip proof, 3PH 60 cycle; 2HP TEFC, 3PH, 60 cycle; 3HP, TEFC, 3PH, 60 cycle.		parts,	quote 1	replacement Part No. and machine.



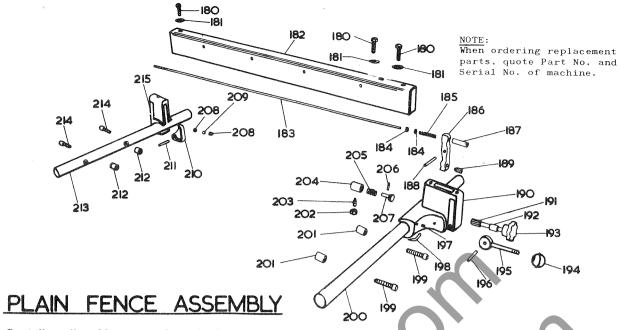




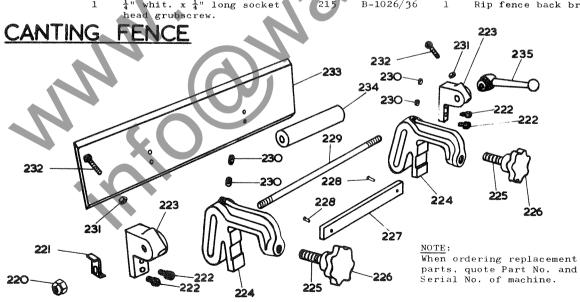
## SLIDE ASSEMBLY

When ordering replacement parts, quote Part No. and Serial No. of machine.

							,
	. Part No.	No.off				No.off	Description
30		6	5/16" whit. x 1" long hexagon	45	W.5/8"	1	Hoffmann Thrust race.
			head bolt.	46		2	3/16" washer.
31		6	5/16" washer.	47		2	$3/16$ " whit. $x \frac{1}{2}$ " long round
32	D-1042/36	1	Top wheel slide frame.				head screw.
33 34	D-1797/32	2	Top wheel slide strip.	48	A-1042/69	1	Saw tension indicator plate
34		8	$\frac{1}{4}$ " whit. x $\frac{3}{4}$ " long hexagon				(standard).
			head bolt.		A-1042/74	1	Saw tension indicator plate
35	D-1797/29	1	Top wheel pivot shaft.		, .		(metric).
36	D-1797/5	1	Tracking and tension slide.	49	A-1042/70	1	Saw tension indicator pin.
37	D-1797/47	1	Tracking distance piece.	50	A-1042/61	1	Saw tension spring seating.
38	Patt.No.14	1	2" dia. plastic handwheel		A-1024/35B	1	Saw tension spring.
			½" whit, TRT,	52	B-1042/63	1	Saw tension screw bearing.
39	D-1797/31	1	Saw tracking screw.	53	, -	2	3/8" washer.
40	Patt.No.14	1	2" dia. plastic handwheel,	54		2	3/8" whit. x 1" long round
			$\frac{1}{2}$ " whit.	-			head screw.
41		1	$\frac{1}{4}$ " whit. x $\frac{1}{2}$ " long socket head	55	Patt.No.14	. 1	3" dia. plastic handwheel,
			grubscrew.			_	½" bore.
42	D-1797/4	1	Tracking boss.	56		1	No. 3 taper pin.
43	A-1042/60	1	Tension screw shroud.	57	B-1042/62	ī	Saw tension screw.
44	,	1	$3/16$ " dia. x $1\frac{1}{4}$ " long groverlok		/ •	_	Can concern colon.
			2/				

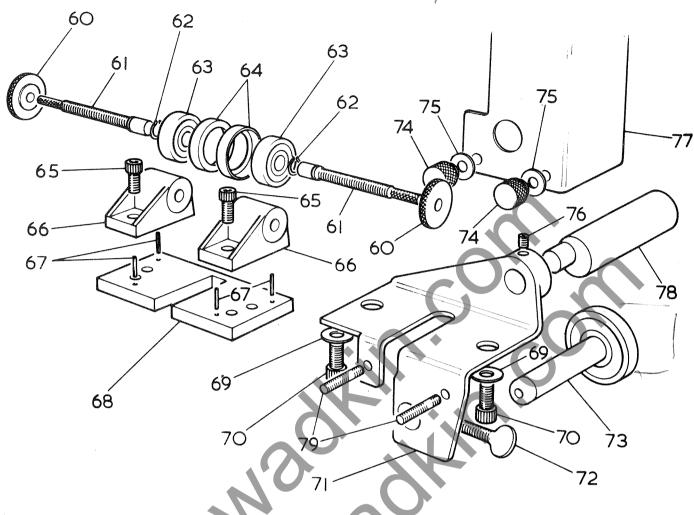


Ref. No.	. Part No.	No.off	Description	Dof No	. Part_No.	No. off	Description
180		3	$3/8$ " whit. $x = \frac{3}{4}$ " long hexagon	198	A-1026/54	10.011	Fence pointer.
100		)	head cadmium bolt.	199	H=1020/ )4	2	3/8" whit. x 2" long socket
181		2		199		4	
182	C-1042/34	<i>)</i>	3/8" cadmium washer.	200	D 10/12/22	,	head cap screw.
		Ţ	Rip fence body.		B-1042/32	7	Rip fence front slide bar.
183	A-1042/31	Ţ	Rip fence connecting rod.	201	A-1042/64	2	Front fence slide bar
184	/	2	$\frac{1}{4}$ " whit. lock nut.				distance piece.
185	A-1044/69	1	Spring for fence locking bar	202		1	3/8" whit. locknut.
186	A-1026/38	1	Rip fence front locking lever	203	A-1026/50	1	Fence locking plunger pip
187	A-1026/46	1	Fence connecting rod nut.				screw.
188	A-1026/55	1	Fence front locking lever	204	A-1026/48	1	Fence locking plunger bush
			pivot.	205	A-1026/49	1	Fence locking plunger spring
189	A-1026/44	1	Fence locking lever adjusting	206		1 .	$\frac{3}{16}$ " dia. x $\frac{3}{4}$ " long groverlok
	·		screw.				dowel.
190	D-1026/35	1	Rip fence front bracket.	207	A-1026/47	1	Fence locking plunger.
191	A-1026/42	1	Fence pinion.	208		2	½" whit. aerotight nut.
192	.,	1	$5/16$ " bore x $\frac{1}{2}$ " $0/D$ x $\frac{1}{2}$ " long	209		1	1 double coil spring washer
		_	oilite bush.	210	B-1026/37	1	Rip fence back lock.
193	Patt.No.14	1	2" plastic handwheel. 5/16"	211	D 2020/ 3/	1	$\frac{1}{4}$ " dia. x $1\frac{1}{2}$ " long groverlok
/-		-	bore.	~~~		-	dowel.
194	Patt.No.28	1	$1\frac{1}{4}$ " dia, Plastic ball, $3/8$ "	212	A-1026/51	2	Fence slide bar distance
±/4	1 000.110.20		whit.	212	H-1020/ 31	~	piece.
195	A-1026/43	7		-010	B-1042/33	7	*
193	A-1020/43	1	Fence locking cam complete	213	B-1042/33	7	Rip fence back slide bar.
106	1 100//=/	7	with handle.	214		2	3/8" whit. x 1%" long socket
196	A-1026/56	1	Fence cam pivot pin.		D 2006/06		head cap screw.
197		1	$\frac{1}{4}$ " whit. $x \frac{1}{4}$ " long socket	215	B-1026/36	7	Rip fence back bracket.
			hoad muhaanay				



Ref.No. H	Part No.	No.off		Ref.No.	Part No.	No.off	Description
220		1	3/8" whit. aerotight nut.	229	A = 1024/106	1	Fence pivot stud.
221 A-	-1024/110	1	Lugged washer.	230		4	$\frac{1}{4}$ " whit. x 3/8" long socket
222		4	$5/16$ " whit. x $\frac{3}{4}$ " long				head grubscrew.
			socket head cap screw.	231		2	¼" whit. nut.
223 B-	-1024/100	2	Fence plate bracket.	232		2	$\frac{1}{4}$ " whit. x $1\frac{3}{4}$ " long hexagon
224 B-	-1024/101	2	Fence canting bracket.				head bolt.
225 A-	-1024/109	2	Fence clamp screw.	233	A-1024/111	1	Fence plate.
226 Pa	att.No.14	2	2" dia. plastic handwheel	234	A-1024/105	1	Fence canting bracket
227 A- 228	-1024/108	1 2	Fence clamp bar. $1/8$ " dia. $x \frac{1}{2}$ " long fluted	235		1	distance piece. 3/8" whit. kipp handle.
			rivet.				

# 15/1° 158/RS 2" 200/RS



#### NOTE:

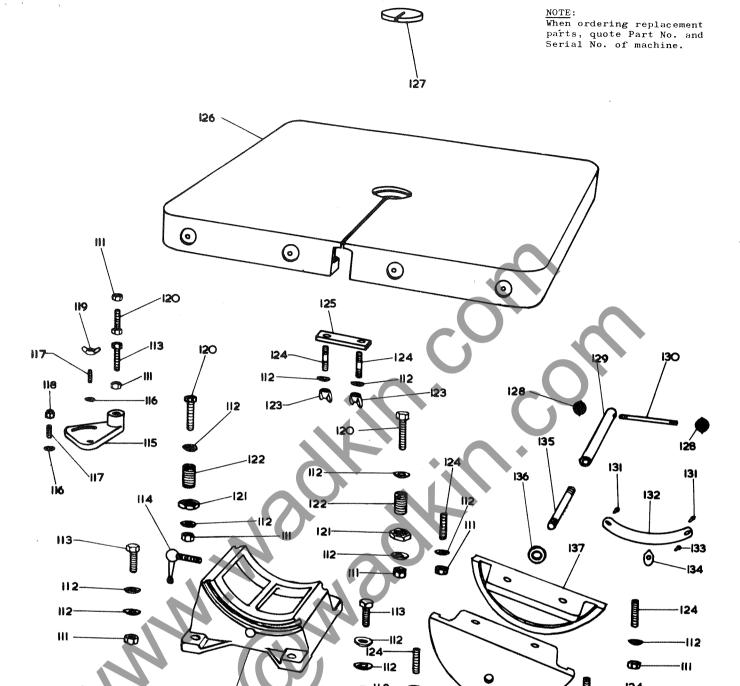
When ordering replacement parts, quote Part No. and Serial No. of machine.

## TOP OR BOTTOM SAW GUIDE ASSEMBLY

-	Part No.	No. off	Description	Ref. N	lo. Part No.	No.off	Description.
6O	A-1062/32	1	Guide locknut (right hand)	70		2	5/16" whit x 5/8" long socket
		1	Guide locknut (left hand)				head capscrew
61	A-1062/27 ¥	1	Saw guide side roller spindle	71	C-1062/25	1	Saw guide bracket
			(right hand)	72	,	1	$5/16$ " whit x $1\frac{1}{4}$ " long
		1	Saw guide side roller spindle				thumbscrew
			(left hand)	73	A-1062/52	1	Runner Spindle Assembly
62		2	Truarc External Circlip	74	A-1042/66	2	Knurled knob for saw guide
			No. 5100-39	75		2	14" washer (Top Guide
63		2	Fischer DN2OO Sealed for				Assembly)
			life bearing	76		1	5/16" dia. x 3/8" long
64	A-1062/30	2	Guide side roller shroud				socket head grubscrew
65		2	$5/16$ " whit x $\frac{1}{2}$ " long socket	77	B-1042/82	1	Saw guard (Top Guide
			head capscrew				Assembly)
66	A-1062/26	2	Saw guide adjustment block	78	A-1062/37	1	Top guide shaft
67		4	1/8" dia. x 5/8" long		A-1042/80	1	Bottom guide shaft
0.0			groverlok spring dowel	79		2	$\frac{1}{4}$ " whit x l" long stud
68	A-1062/42	1	Packing piece for guide				(Top Guide Assembly)
69		2	5/16" washer				, ,

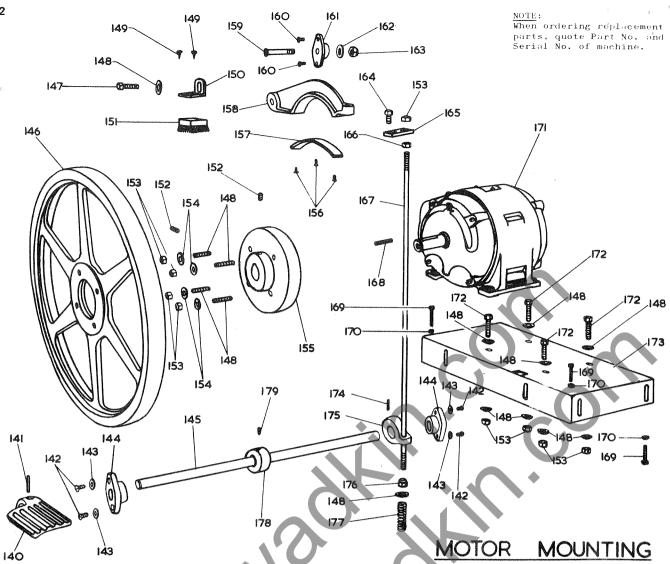
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Dof N	lo. Part No.	No.off	D	D - 6 M -	D		
110	D-1042/4	NO. 011			Part No.	NO.011	
	D-1042/4	10	Table quadrant slide bracket.		D-1042/3	1	Table.
111		10	3/8" whit. nut.	127		1	Wood table insert.
112		14	3/8" washer.	128	Patt.No.30	2	$\frac{3}{4}$ " dia. plastic ball, 5/16"
113		3	3/8" whit. x 1" long hexagon				whit.
			head bolt.	129	A-1042/25	1.	Quadrant locking handle.
114	B-S-1-B	1	3/8" whit. ball lever screw	130	A-1042/30	1	Toggle bar for quadrant lock.
115	A-1042/15	1	Stop bracket for table.	131		2	$1/8$ " dia. x $\frac{1}{2}$ " long fluted
116		2	½" washer.				rivet.
117		2	$\frac{1}{4}$ " whit. x $1\frac{1}{4}$ " long stud.	132	B-1042/16	1	Table angle indicator rule.
.118		1	$\frac{1}{4}$ " whit. aerotight nut.	133		1	$\frac{1}{4}$ " whit. x $\frac{1}{2}$ " long round head
119		1	4" whit. wingnut.				screw.
120		3	$3/8$ " whit. x $1\frac{1}{2}$ " long	134	A-1026/72	1	Pointer.
			hexagon head bolt.	135	A-1042/24	1	Quadrant locking stud.
121		2	$\frac{3}{4}$ " simplex nut.	136		1	½" washer.
122	A-1031/95	2	3" simplex adjuster.	137	B-1042/5	7	Quadrant side plate (17/32"
123		2	3/8" whit. wingnut.	-21		_	hole).
124		6	$3/8$ " whit. x $1\frac{1}{4}$ " long stud.	138	B-1042/5	1	Quadrant side plate ( 1 whit)
125	D-1797/41	1	Keep plate for table.			-	dans property

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Ref.No	. Part No.	No.off	Description	Ref.	No. Part No.	No.off	Description
140	A-1042/12	1	Brake pedal.	170	77 77	4	1" whit. locknut.
141		1	$3/16$ " dia. x $1\frac{1}{2}$ " long groverlok	171	Std. 50 cycle	1	Brook motor, 2 HP, 1,000 rpm,
			dowel.		att. 00 0jeze	-	D184, TEFC, 3 phase.
142		4	$5/16$ " whit. x $\frac{3}{4}$ " long round				Diot, TEFC, 5 phase.
			head screw.		3 HP TEFC	1	Brook motor, 3 HP,
143		4	5/16" washer.		50 cycles		1,000 rpm, D213, TEFC, 3 phase.
144	A - 1042/13A	_	Pivot bracket for brake.		-		
145	A-1042/29	1	Foot pedal pivot bar.		1 phase	1	Brook motor, 2 HP,
146	D-1042/2	1	Wheel.				1,000 rpm, ED 213 L TEFC 1
147		1	$3/8$ " whit. $x \frac{3}{4}$ " long hexagon				phase.
21.0			head bolt.		001		D. 1. 0.11D 1.000
148		14	3/8" washer.		60 cycles	1	Brook motor, 2 HP, 1, 200 rpm,
149		15	No. $8 \times \frac{3}{4}$ " long round head				D184, TEFC, 3 phase.
150	B-1042/72	1	wood screw. Bracket for brush.		3 HP TEFC	1	Brook motor, 3 HP,
151	D-1042/72	1	Brush.		60 cycles	•	1, 200 rpm, D213 TEFC, 3 phase.
152		1 2	1/8" gas x 2" long socket		oo cycles		1, 200 rpm, D213 refe, 5 phase.
۵/۱		4	head grubscrew.		1 phase	1	Brook motor, 2 HP, 1, 200 rpm,
153		9	3/8" whit nut.		60 cycles		ED 213L, TEFC, 1 phase
154		4	3/8" whit. x 1.3/8" long stud		<b>J</b>		,,,,,
155	B-1042/10	i	Bottom wheel hub.				
156	2 20 110, 20	3	3/16" dia. countersunk head				
			copper rivet.				
157	-	7"long	Ferodo brake lining.	172		4	$3/8$ " whit. x $1\frac{1}{2}$ " long
158	C-1042/73	1	Brake shoe.	•			hexagon head bolt.
159	A-1042/28	1	Brake shoe pivot pin.	173	C-1042/1A	1	Standard motor platform.
160		2	$5/16$ " whit. x $\frac{3}{4}$ " long counter-		C-1042/75	1	Single phase motor platform
			sunk head screw.	174		1	$3/16$ " dia. x $1\frac{3}{4}$ " long
161	A-1042/13	1	Pivot bracket for brake.				groverlok dowel.
162		1	$\frac{1}{2}$ " washer.	175	A-1042/14	1	Brake lever.
163		1	$\frac{1}{2}$ " whit. aerotight nut.	176		1	3/8" whit. aerotight nut.
164		1	3/8" whit. x 1" long hexagon	177	A-1042/68	1	Brake release spring.
			head bolt.	178	A-1026/29	1	Collar.
165	A-1042/26	1	Brake rod connecting link.	179		1	3/8" whit. x $3/8$ " long socket
166		1	3/8" whit. locknut.				head grubscrew.
167	A-1042/27	1	Brake rod.				
168		1	$5/16$ " wide x $2\frac{1}{2}$ " long key.				
169		4	$\frac{1}{4}$ " whit. x $1\frac{1}{2}$ " square head				
			bolt.				

	GA4705RM GA2510RM	WAA471 24\ XL2008RM	GA8186RM	GA11/3BM	PART NO
(02 Stock)	FABRICATION FABRICATION	FABRICATION CASTING	CASTING	FABRICATION	DESCRIPTION
		2 NO		$\omega$	QTY ON STOCK
901	NONE	NONE 10	NONE 15	NONE	ON STOCK ULTRACARE USE
	1 FINISHED PART	S/C OUT 5.1.04.	4 FINISHED PARTS		NOTES
				DIOPUOAL	DISPOSAL

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