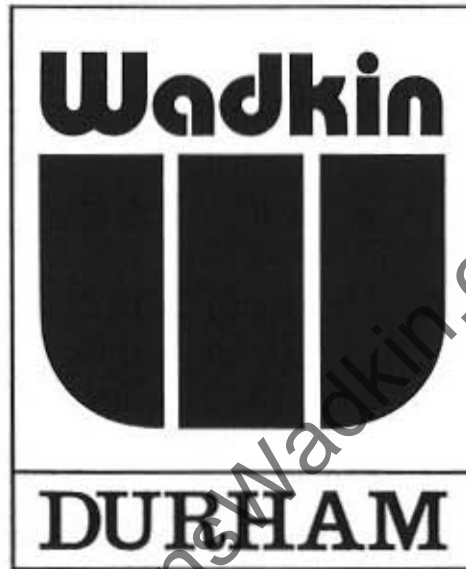


## **IMPORTANT**

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



**For Replacement Parts, Tools and Accessories,  
Contact:**

**WADKIN DURHAM  
DIVISION OF WADKIN PLC,  
FENCE HOUSES, HOUGHTON-LE-SPRING,  
TYNE & WEAR, DH4 5RQ, ENGLAND.  
A MEMBER OF THE THOS. ROBINSON GROUP PLC  
Telephone: Durham (091) 385 2385  
Telex: 53441 (BURDRM G)  
Fax: (091) 385 3311**

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

**Always use Guards**  
**Keep clear until rotation has ceased**  
**Always operate as instructed and**  
**in accordance with good practice**  
**Read Instruction Manual**

# **BGY**

## **INSTRUCTION MANUAL**

[www.DaltonsWadkin.com](http://www.DaltonsWadkin.com)

## BGY FUSE LIST

VOLTAGE	PHASE	KW	SWG TINNED COPPER WIRE	AMPS	DIRECT ON LINE
220	3	1.5	19	35	
380	3	1.5	23	20	
415	3	1.5	23	23	
240	1	1.5	16	60	

USA & CANADA			CARTRIDGE FUSE
VOLTAGE	PHASE	HP	AMPS
220	3	2	35
440	3	2	17
575	3	2	15

www.DaltonsWadkin.com

## INSTALLATION

Remove protective anti-rust coating from bright parts by applying a cloth soaked in paraffin or other solvent.

## WIRING

The motor and control gear have been wired in before despatch, therefore all that is required to be done is to connect the mains supply to the starter, or isolator where fitted.

## POINTS TO NOTE WHEN CONNECTING TO POWER SUPPLY

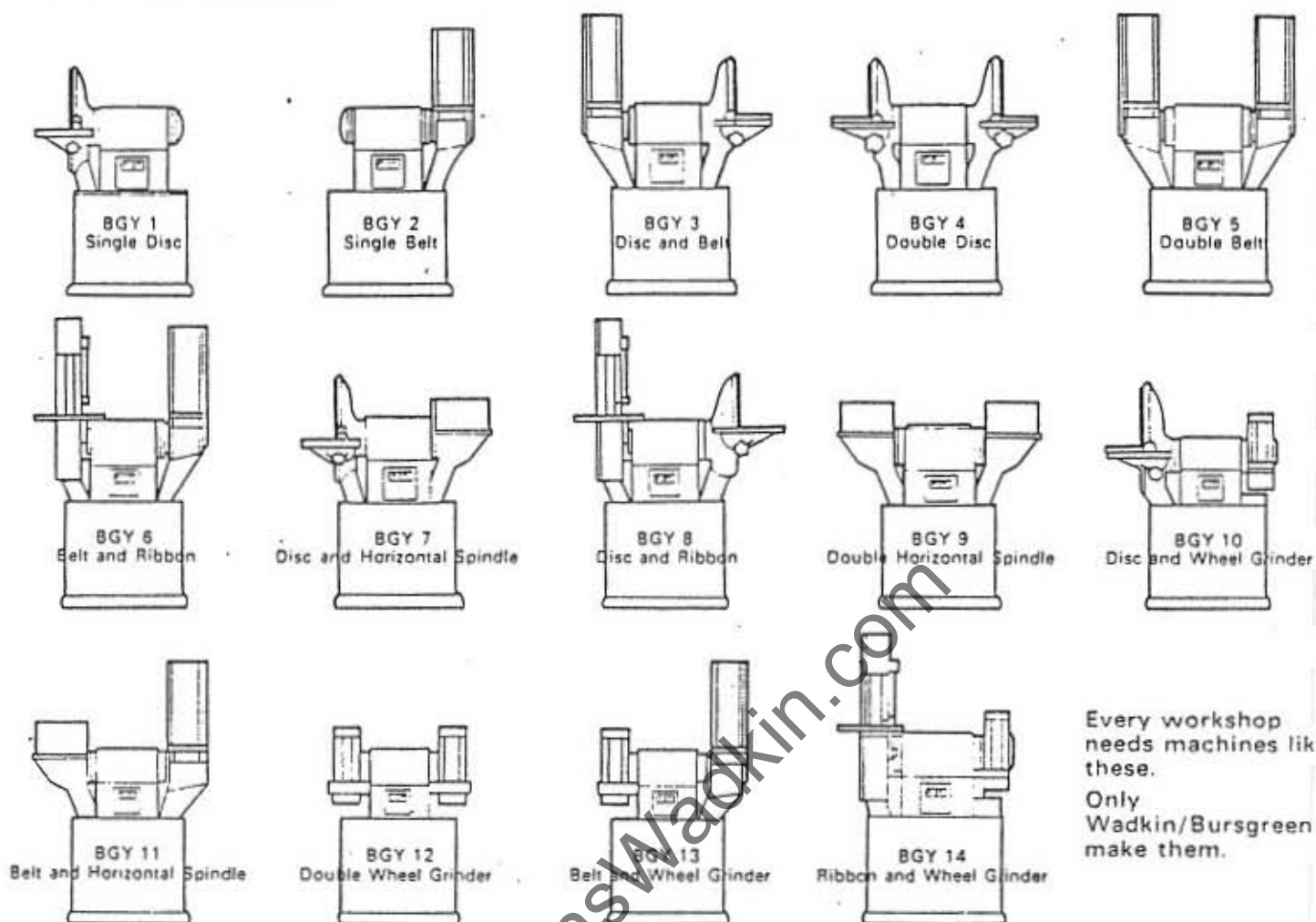
1. Check voltage, phase and frequency with that on the machine.
2. It is important that the correct cable is used to deliver the correct voltage to the starter. RUNNING ON LOW VOLTAGE WILL DAMAGE MOTOR (SEE LIST).
3. Check main line fuses are of correct capacity.
4. Connect line leads to correct terminals (SEE WIRING DIAGRAM)
5. Check all connections are sound.
6. Check spindle rotates in correct direction. If not reverse any two of the line lead connections.

## FAILURE TO START:-

1. Fuses have blown or have not been fitted
2. Isolator switch has not been closed.
3. Lock off or stop button (when fitted) has not been released.
4. Supply not available at machine.

## STOPPAGE DURING OPERATION AND FAILURE TO RESTART:-

1. Overloads have tripped. If hand re-set, set by pressing button. If automatic they will re-set after a short period.
2. Fuses have blown.



Every workshop needs machines like these.

Only Wadkin/Bursgreen make them.

### Specification

#### Disc

Diameter of abrasive disc	405mm	16in
Size of disc table	635 x 230mm	25 x 9in
Height of disc table from floor	865mm	34in
Disc table cants	-10 to +45°	
Spindle speed	1500 rev/min	
Disc will accept paper, cloth-backed or honeycomb abrasives for work on wood, metal, plastic etc.		

#### Narrow Ribbon

Size of abrasive ribbon	2286 x 50mm	90 x 2in
Height of ribbon table from floor	1020mm	42in
Size of ribbon table	305 x 305mm	12 x 12in
Ribbon table cants	-10 to +45°	
Diameter of ribbon pulleys	254mm	10in
Speed of ribbon	1200 m/min	3930 ft/min
Spindle speed	1500 rev/min	1500 rev/min

Will accept narrow ribbons of paper or cloth backed abrasives up to 50mm (2in) wide

#### Plain or Horizontal Spindle

Diameter of spindle	1in	1in
Useable length of spindle	194mm	7 7/8in
Spindle speed	1500 rev/min	1500 rev/min
Height of spindle centre from floor	890mm	35in

This spindle unit includes one set of spacing collars to adapt customer's equipment and will accept pneumatic bobbins from 100mm to 250mm (4 to 10in) diameter also brush-backed profile sander-heads and polishing or buffing mops

#### Wheel Grinder

Maximum diameter of grinding wheel	305mm	12in
Maximum width of wheel	38mm	1 1/2in
Diameter of centre bore in wheel		1 1/2in
Distance between grinding wheels	420mm	16 1/2in
Spindle centre height from floor	890mm	35in
Spindle speed	1500 rev/min	
Peripheral speed of wheel (305mm 12in diameter)	1432 m/min	4700

Wheel grinder has fully adjustable tool rests and is capable of general grinding work on all metals and work tools.

#### Wide Belt

Size of abrasive belt	1600 x 150mm	63 x 6in
Size of abrasive belt table	470 x 180mm	18 1/2 x 7 1/8in
Height of table from floor (horizontal)	965mm	38in
Size of canting table (vertical)	190 x 150mm	7 1/2 x 6in
Diameters of belt pulleys	150 and 100mm	6in and 4in
Speed of sanding belt	716 m/min	2350 ft/min
Spindle speed	1500 rev/min	1500 rev/min

Wide belt will accept paper or cloth back abrasives for work on wood, metal or plastic etc.

#### Power of Motor

All models	1.5kW	2hp
Single phase electric	State voltage required	

\*All models are provided with guards to British Standards or those with plain horizontal spindles where the customer provides his own

**Wadkin  
Bursgreen**

### SALES

#### WADKIN LTD.

Green Lane Works, Leicester LE5 4PF, England  
Telephone: 0533 769111 Telex: 34646 (Wadkin G)  
Telegrams & Cables: Woodworker, Leicester, Telex.

also York [www.DaltonsWadkin.com](http://www.DaltonsWadkin.com) Hemley, Middx. HA9 0PA  
Telephone: 01-902 7714 (3 lines) Telex: 262210

### SERVICE

#### BURSGREEN (COLNE) LTD.

Lodge Holme, Trawden, Nr Colne, Lnc.  
Telephone: (0282) 865310. Telex: 631

As our policy is constantly to improve the design of Bursgreen woodworking machinery, the details given in this leaflet are not to be regarded as binding.

## WIRING FOR 3 PHASE SUPPLY

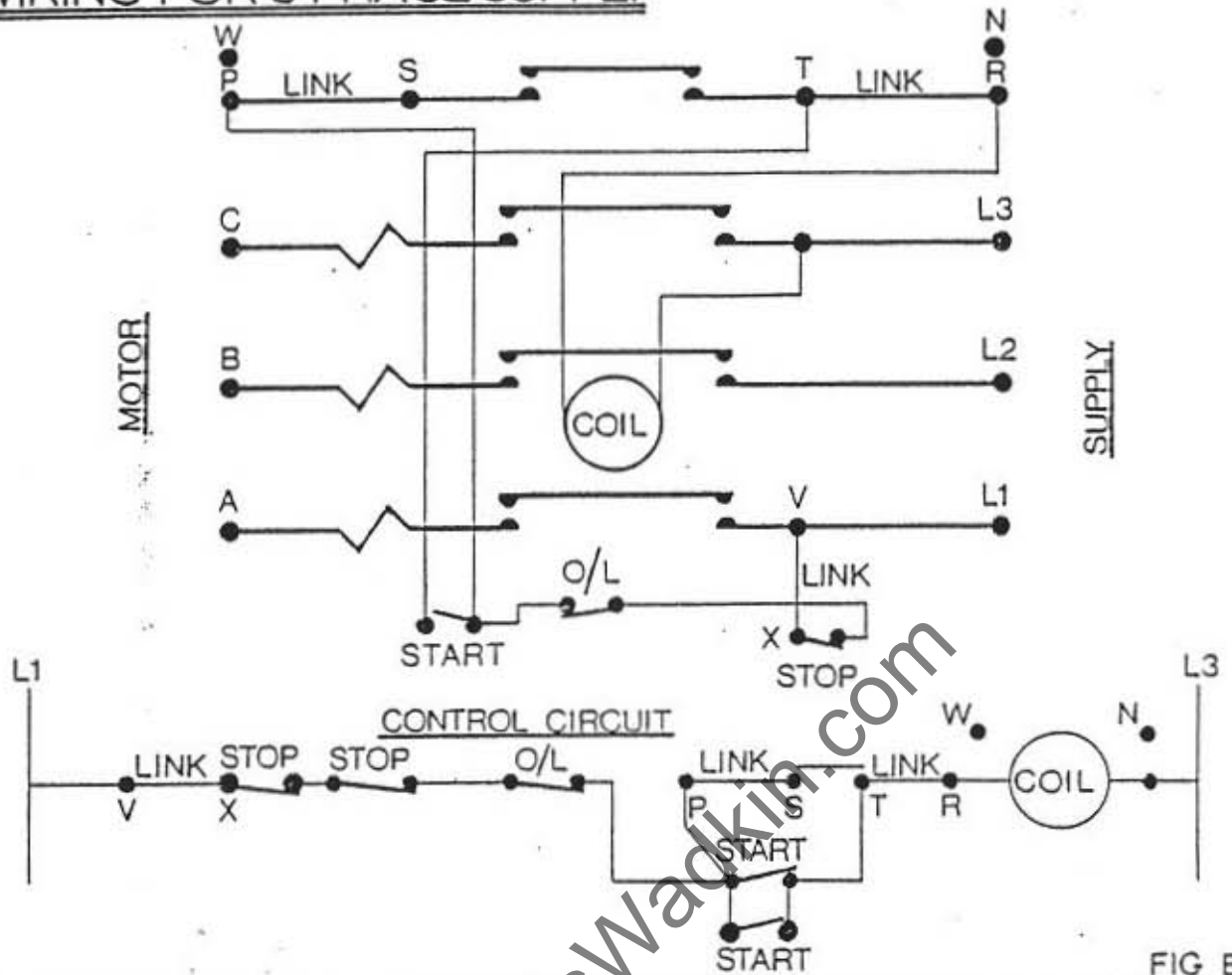


FIG B1

## WIRING FOR 1 PHASE SUPPLY

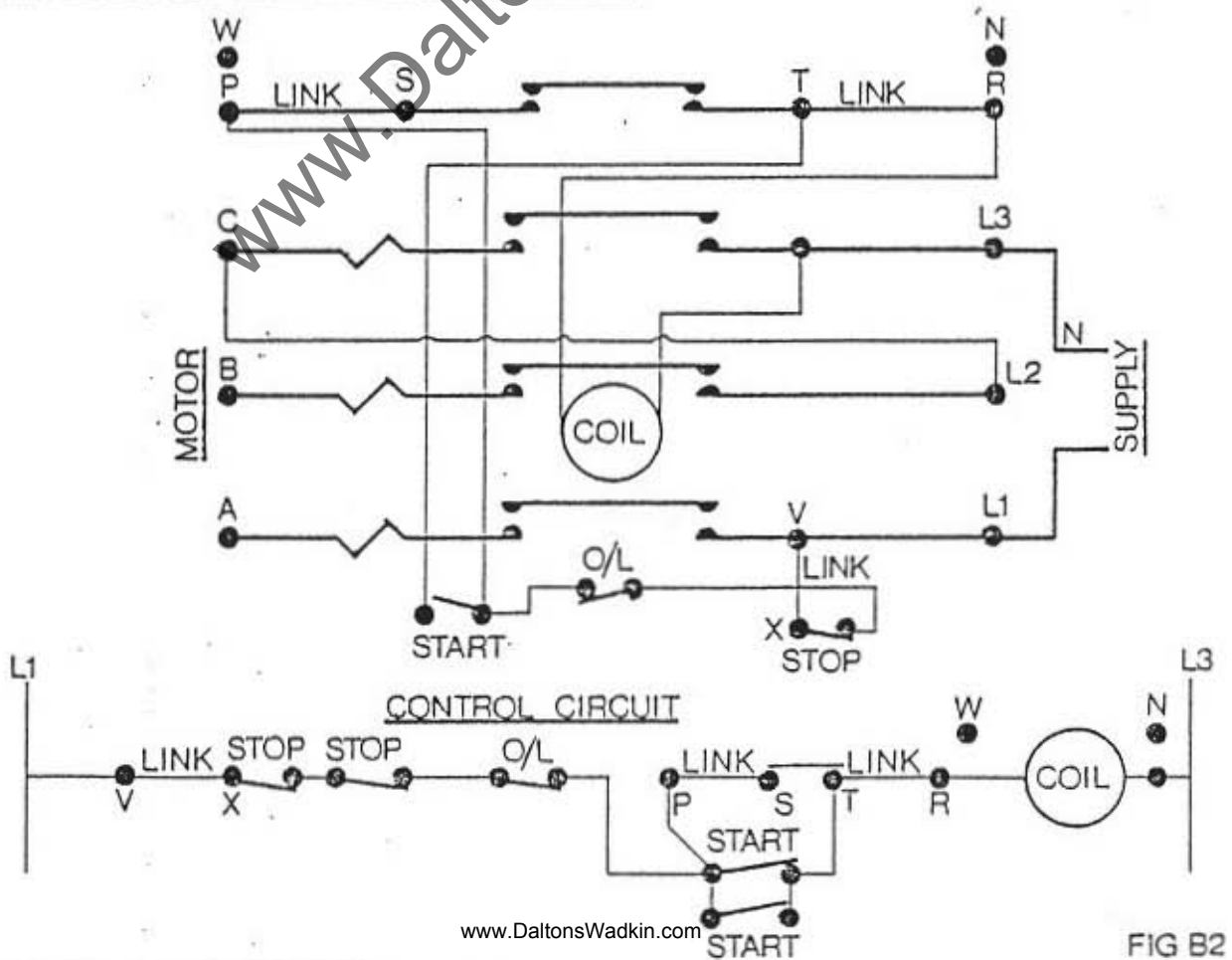
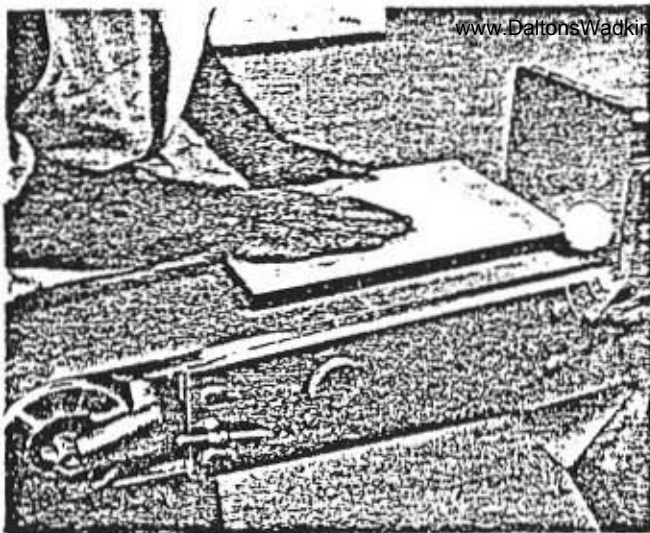
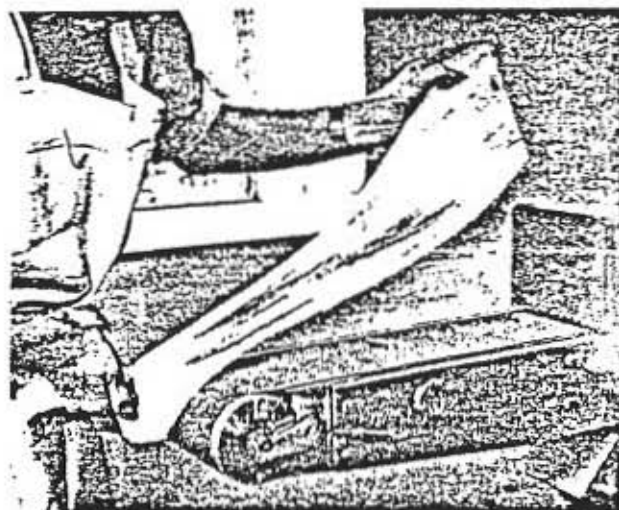


FIG B2

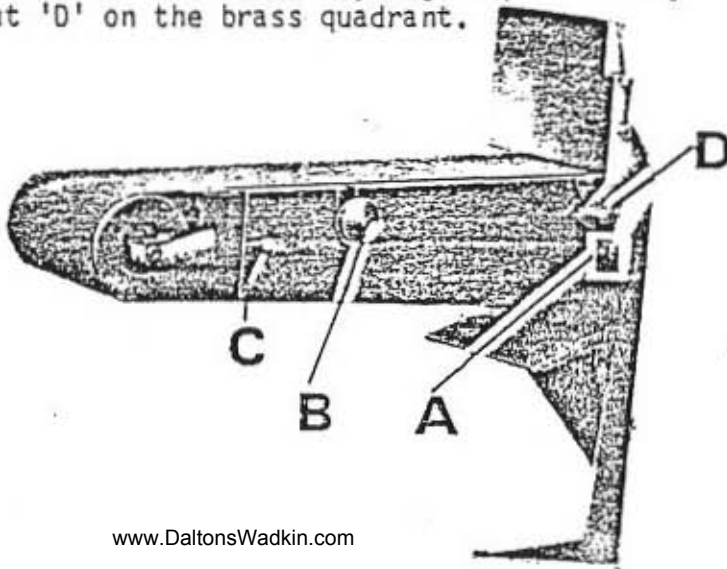


Belt can be used in either horizontal or vertical positions for flat or built up work.



Internal curved work can be sanded over the small diameter idler pulley. Rubber covered pulley can be supplied.

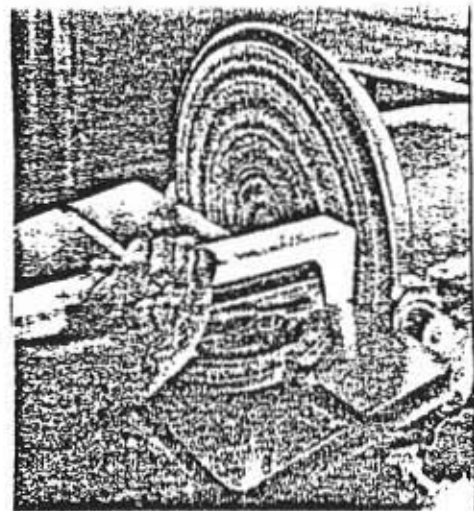
1. **BELT TABLE:-** The belt table may be used in either the horizontal or vertical position. To alter this position unlock the two clamp nuts 'A' and pivot into the required position. The table may be pivoted through 90° with positive stops at both 0° and 90°. Before operating ensure clamp bolts 'A' are locked firmly.
2. **BELT TRACKING:-** If the smaller front pulley does not run on the correct axis the belt will tend to run off the pulleys. To adjust the track of the belts start the machine and screw the knurled nut 'B', on the side of the table in or out as required until the belt runs true on both back and front pulleys. **NOTE:-** As the abrasive belt wears this adjustment will vary due to belt elongation.
3. **REPLACING BELTS:-** To replace a worn or damaged belt push the smaller front pulley back towards the larger pulley and lock the spring loaded yoke back in this position by turning locking handle 'C'. After locking hand pressure may be removed as the yoke is fixed firmly enabling the new belt to be placed over the pulleys. After fitting new belt unscrew lever 'C' as this allows the roller and yoke to spring out and replace tension on the belts. Start machine and track belt as underlined in section (3).
4. **BELT SANDING TABLE:-** The belt sanding table acts as a stop when the belt is in the horizontal position and as a work table when vertical. The table can be set at any angle up to 45° by unlocking the nut 'D' on the brass quadrant.







Large disc table provides perfect support for edge sanding straight or external curved work.



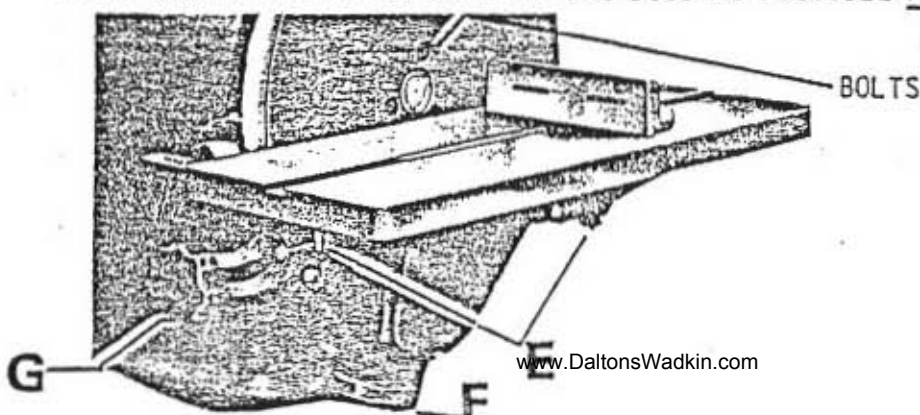
Adjustable swivelling fence and counting table makes bevel sanding both easy and accurate.

5. DISC AND CANTING TABLE:- The disc is 16in. in diameter and is secured to the spindle by means of four countersunk set screws. To change the abrasive pad on the disc it is necessary to remove the disc plate as follows:-

1. Slacken tee handles 'E' under table and pull table away from disc.
2. Unscrew and remove lower guard 'F'
3. Slacken and remove four bolts on disc plate. If plate does not pull off spindle replace two bolts into two vacant holes on the disc and jack the disc off by tightening the bolts down onto the adaptor.
4. Scrape and remove all traces of the adhesive and abrasive paper from disc plate surface.
5. Smear a liberal coat of adhesive\* on the disc and fit the new pad. Set aside to dry under pressure such as a disc press which can be supplied extra.
6. To refit reverse the above procedure.

\* We recommend GROID C5 adhesive which can be supplied to order.

CANTING TABLE:- This is secured to the machine by cast iron quadrants and is provided with a slot to enable the use of a mitre fence. Where a mitre fence is not used the slot in the table is blanked off with a filler strip. The table can cant 10° up and 45° down and is locked in position with handwheels 'G'. The angle of cant is shown on a graduated scale whilst a taper pin registers the table in the horizontal position. Tee locking handles 'E' underneath the table allow the position to be varied to clear the disc when canting. IT SHOULD BE NOTED THAT THE TABLE SHOULD BE SET AS NEAR TO THE DISC AS POSSIBLE FOR SAFETY.



## INSTRUCTIONS FOR FITTING BRANNER BELTS:-

www.DaltonsWadkin.com

The following notes have been added with the object of providing information on how to correctly fasten and unfasten belts, with step - by step instruction illustrating the techniques involved.

### FASTENING (FIG. 1 - 6)

- FIG.1:- Insert stud head into large hole of link, then move stud to right.  
FIG.2:- Stud pushed back into small holes.  
FIG.3:- Flex belt until the large hole is over head of next stud on left.  
FIG.4:- Apply pressure with left thumb and straighten until stud emerges through oval hole in link.  
FIG.5:- Flex belt opposite way and stud is then eased into its ultimate position at rounded end of link.  
FIG.6:- This is a repetition of step 3, except that when this stud has been inserted and pulled into position the belt is joined together.

### POINTS TO OBSERVE WHEN FASTENING:-

- (a) Stud can only be pressed through by thumb when link is well flexed over as in FIG.3.
- (b) A firm grip is essential.
- (c) Any rubber fabric left standing proud should be tucked under the stud - head with the thumbnail.

### UNFASTENING:- (FIG. 1a - 4a)

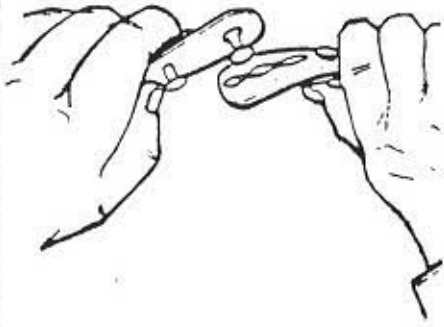
- FIG.1a:- Grip belt firmly in both hands, each thumb pressing on stud head, leaving one stud head uncovered.  
FIG.2a:- Maintaining a firm hold, bring wrists closer together so that uncovered stud head slides into the oval hole in the centre of the link. A wriggling motion of the hands will help in this operation.  
FIG.3a:- Still maintaining firm hold with fingers and keeping belt flexed, with the thumb of the right hand ease the link off the stud head.  
FIG.4a:- Repeat previous operation on adjoining link. The belt will now come apart. Note that in doing this the first link unfastened is held against the disconnected stud to obtain support.

### POINTS TO OBSERVE WHEN UNFASTENING:-

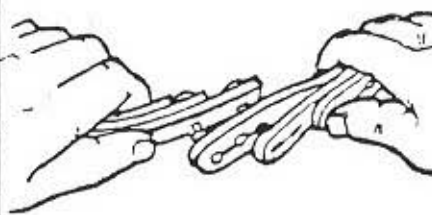
- (a) Grip belt firmly.
- (b) See that the belt is flexed over as far as possible, enabling link to lift over stud easily.

# FASTENING.

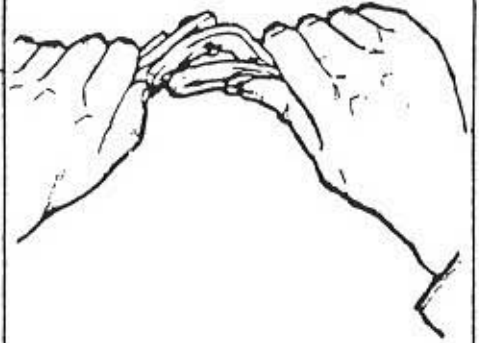
1



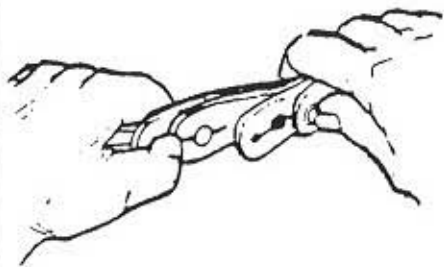
2



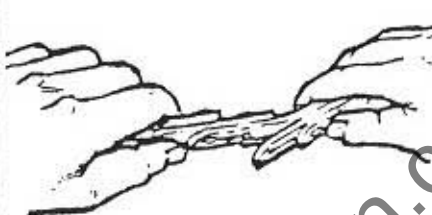
3



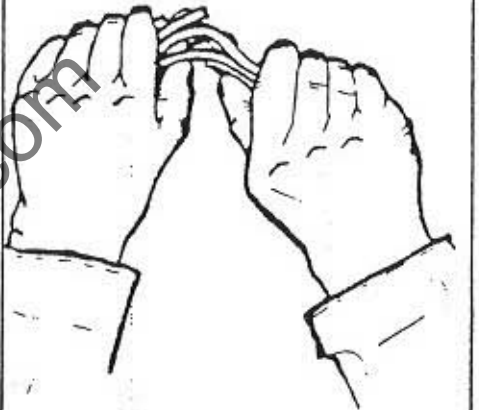
4



5

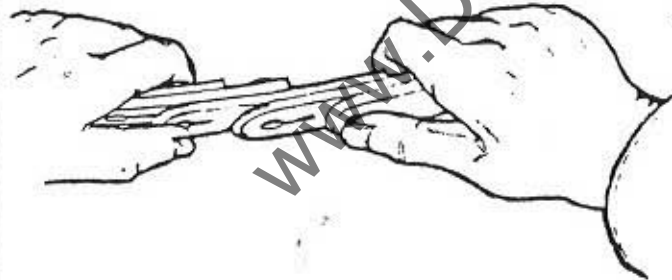


6

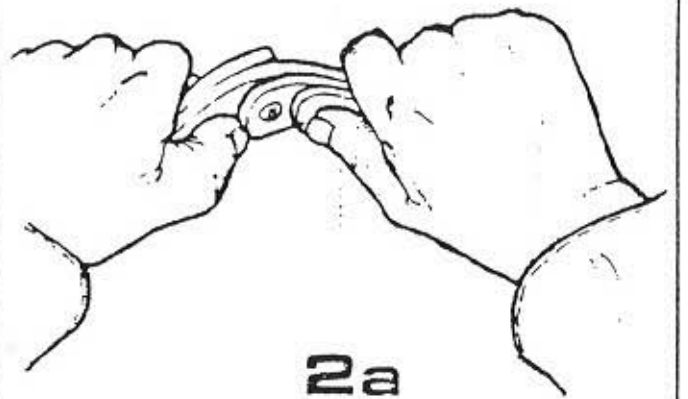


# UNFASTENING.

1a



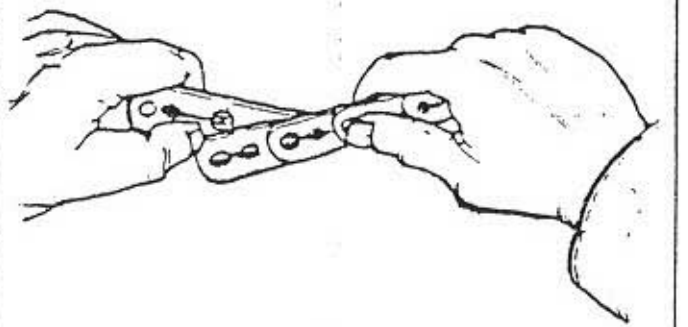
2a



3a



4a



## 8.0 SPARES

### 8.1 Instructions When Ordering Spare/Replacement Parts

The undermentioned information should be given with all orders requesting spare/replacement parts.

- a) Machine type.
- b) Machine serial number.
- c) If no manual available, give as full a description as possible of the required part, including location within the machine.
- d) Order number and full company name and address.
- e) Company account number, with Wadkin, if known.
- f) All telephone orders must be followed by an official order, clearly marked "Confirmation Order".

**NOTE:** The company operates a 'Minimum Order Charge' on all spare/replacement part orders.

WADKIN DURHAM, Fence Houses, Houghton le Spring, Tyne & Wear, DH4 5RQ  
Tel No: 091 385 2385 Fax No: 091 385 3311

### NOISE LEVELS

This machine, under certain conditions, will emit noise levels in excess of 85dB(a).

Noise levels will be affected by the environment in which the machine operates, the timber being machined, tooling, machine setting and dust extraction.

Further information available from Wadkin (at the above address) on request".

"As a manufacturer it is Wadkin's policy to reduce the noise level as far as is practicable.

www.DaltonsWadkin.com