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FAO

MR VESSALL

8 PAGES

BGY

INSTRUCTION MANUAL

②

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

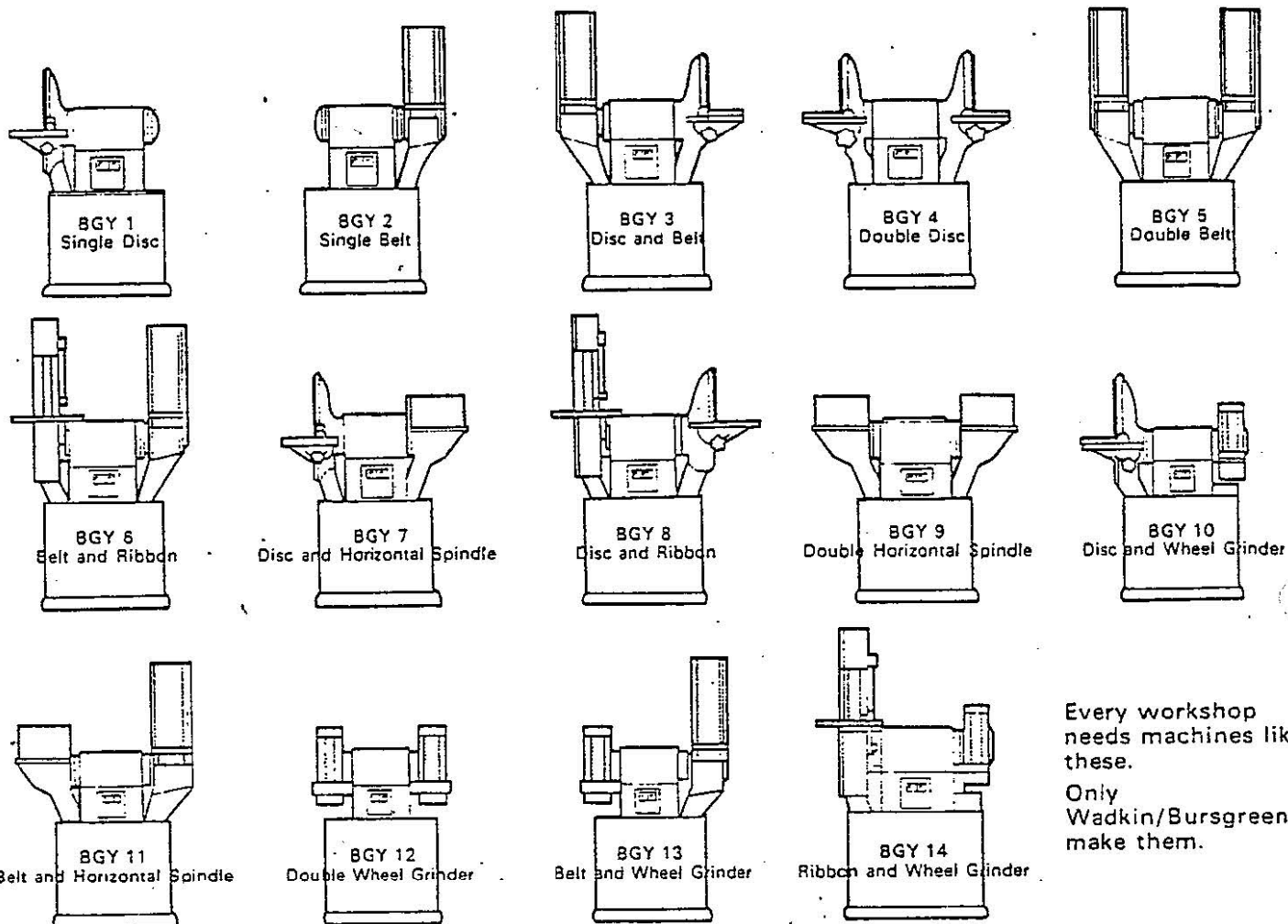
1. Check voltage, phase and frequency with that on the machine.
2. It is important that the correct cable is used to deliver the correct voltage to the starter. RUNNING ON LOW VOLTAGE WILL DAMAGE MOTOR (SEE LIST).
3. Check main line fuses are of correct capacity.
4. Connect line leads to correct terminals (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.

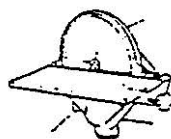
STOPPAGE DURING OPERATION AND FAILURE TO RESTART:-

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

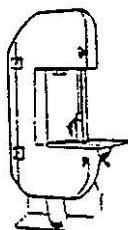


Disc
 Diameter of abrasive disc 405mm 16in
 Size of disc table 635 x 230mm 25 x 9in
 Height of disc table from floor 865mm 34in
 Disc table cants -10 to -45°
 Spindle speed 1500 rev./min
 Disc will accept paper cloth-backed or honeycomb abrasives for work on wood metal or plastic etc.

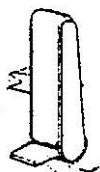


Wheel Grinder
 Maximum diameter of grinding wheel 305mm 12in
 Maximum width of wheel 38mm 1 1/2in
 Diameter of centre bore in wheel 1 1/2in
 Distance between grinding wheels 420mm 16 1/2in
 Spindle centre height from floor 890mm 35in
 Spindle speed 1500 rev./min
 Peripheral speed of wheel (305mm 12in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



Narrow Ribbon
 Size of abrasive ribbon 2286 x 50 mm 90 x 2in
 Height of ribbon table from floor 1020mm 42 1/2in
 Size of ribbon table 305 x 305 mm 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



Wide Belt
 Size of abrasive belt 1600 x 150mm 63 x 6in
 Size of abrasive belt table 470 x 180mm 18 1/2 x 7in
 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.



Plain or Horizontal Spindle
 Diameter of spindle 1 1/2in 1 1/2in
 Usable 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 heads

Power of Motor
 All models 1.5kW 2hp
 Single phase electrics State voltage required

*All models are provided with guards to British Standards except those with plain horizontal spindles where the customer should provide his own.

**Wadkin
Bursgreen**

SALES

WADKIN LTD.
 Green Lane Works, Leicester LE5 4PF, England
 Telephone: 0116 2769111

SERVICE

BURSGREEN LTD.
 Green Lane Works, Leicester LE5 4PF, England
 Telephone: 0116 2769111

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.

BGY FUSE LIST

VOLTAGE	PHASE	KW	SWG TINNED COPPER WIRE	AMPS	DIRECT ON LINE
230	3	1.5	19	35	
330	3	1.5	23	20	
415	3	1.5	23	23	
240	1	1.5	16	60	

USA & CANADA

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

3

3

WIRING FOR 3 PHASE SUPPLY

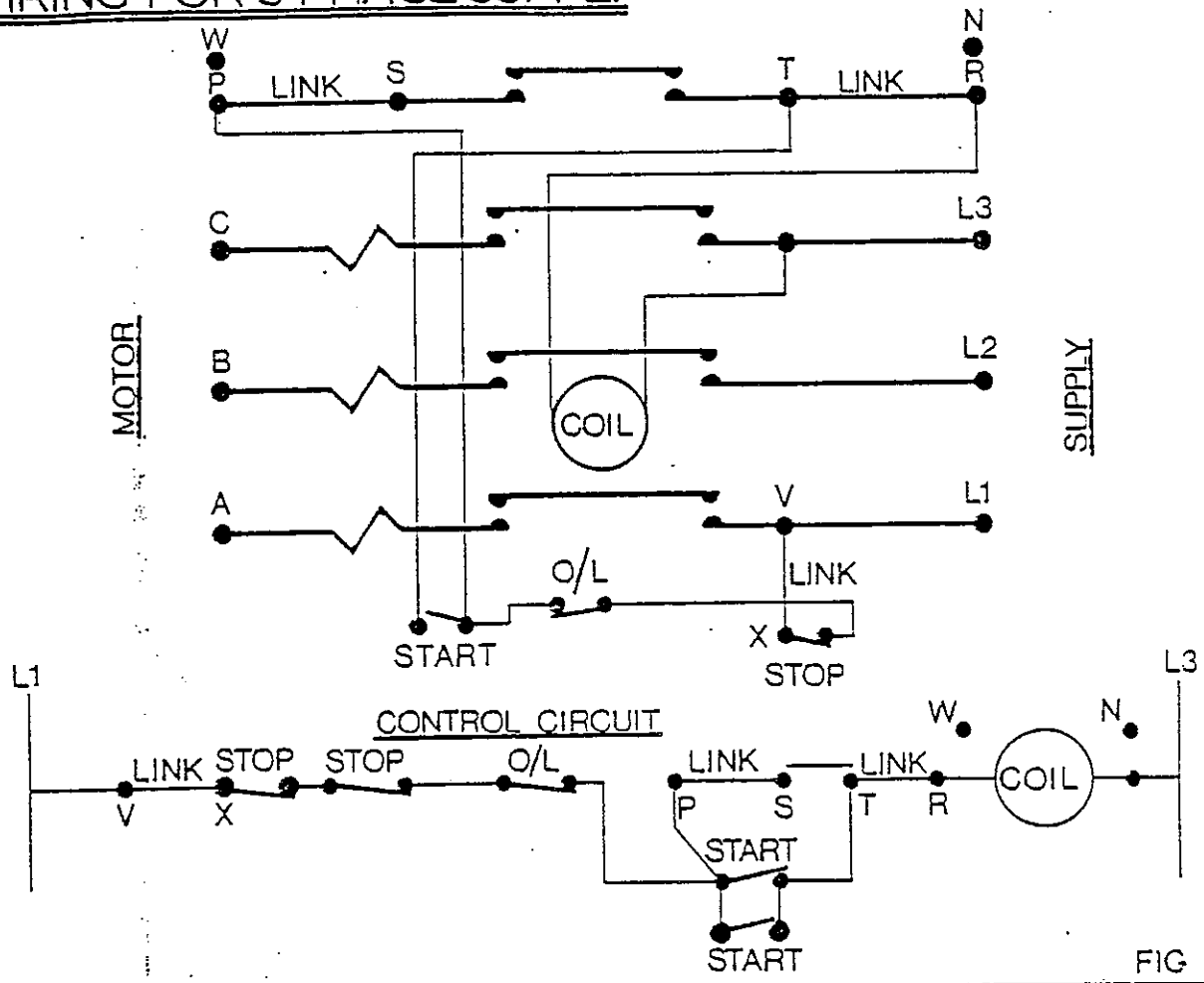


FIG B1

WIRING FOR 1 PHASE SUPPLY

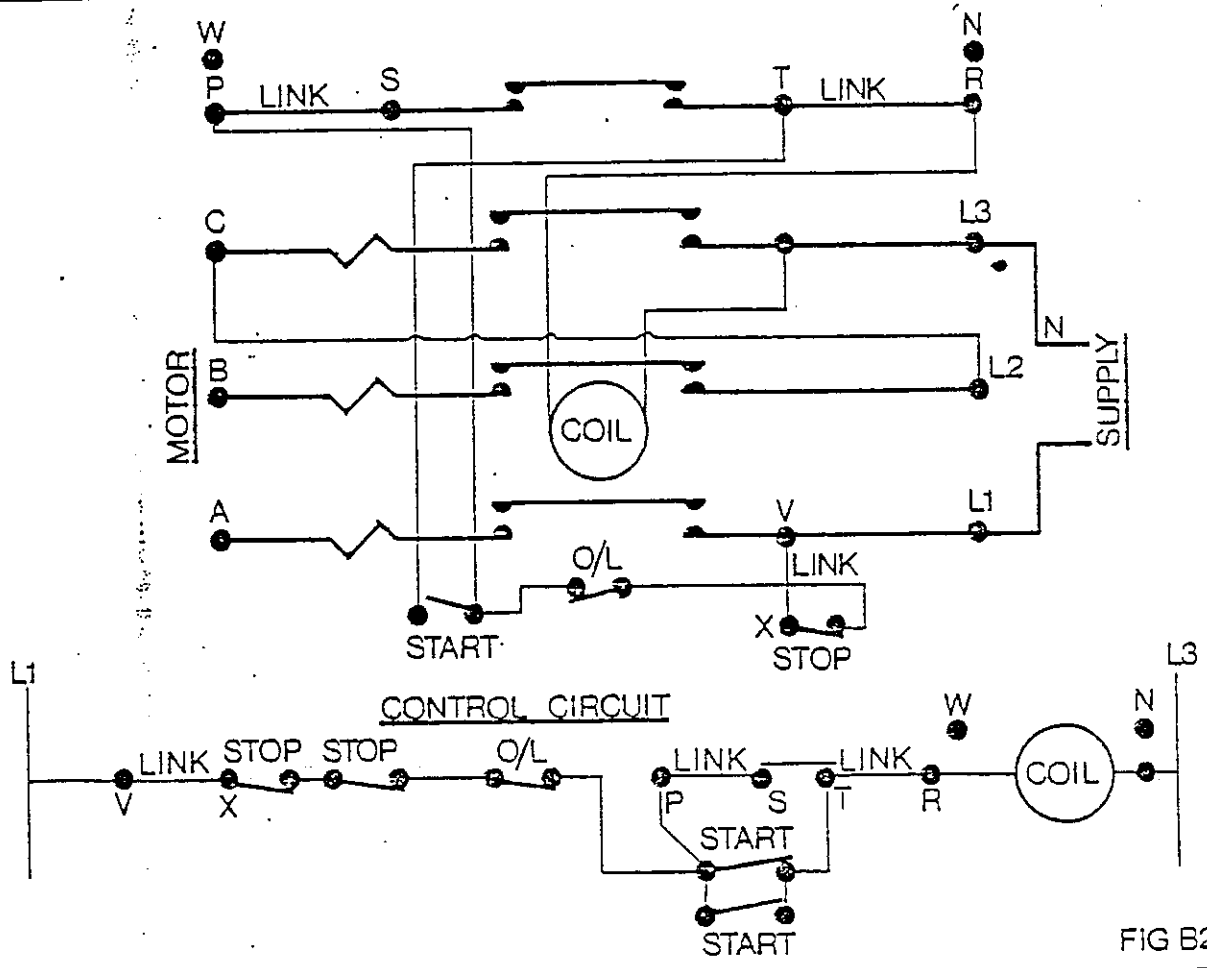
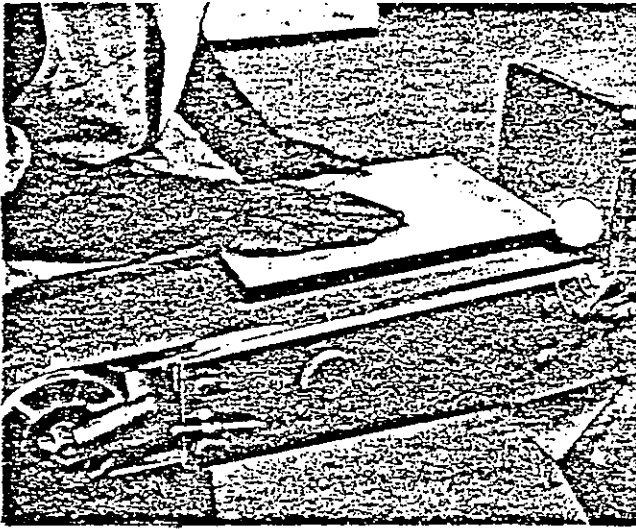
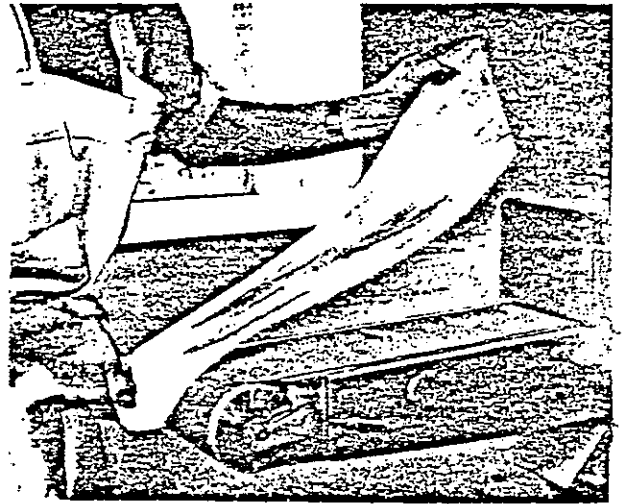


FIG B2

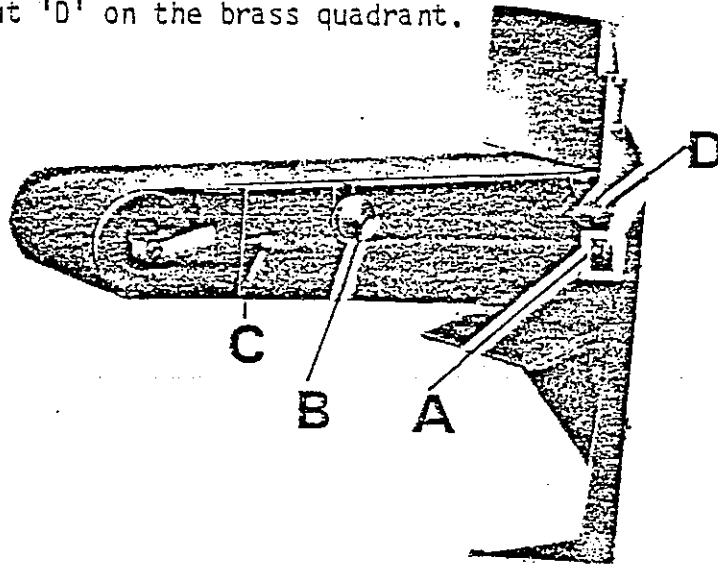


Belt can be used in either horizontal or vertical positions for flat or built up work.

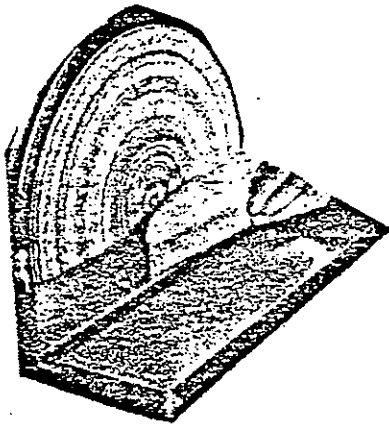


Internal curved work can be sanded over the small diameter idler pulley. Rubber covered pulley can be supplied.

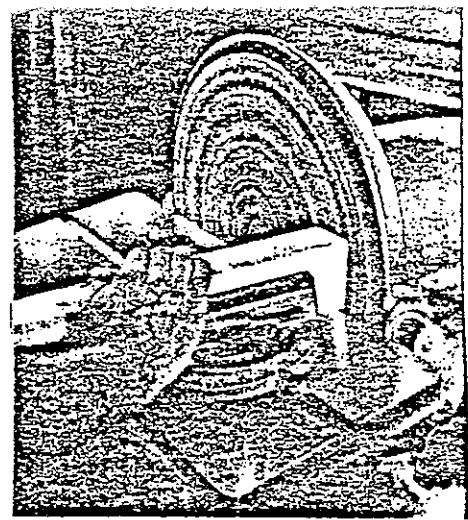
1. BELT TABLE:- The belt table may be used in either the horizontal or vertical position. To alter this position unlock the two clamp nuts 'A' and pivot into the required position. The table may be pivoted through 90° with positive stops at both 0° and 90°. Before operating ensure clamp bolts 'A' are 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.



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



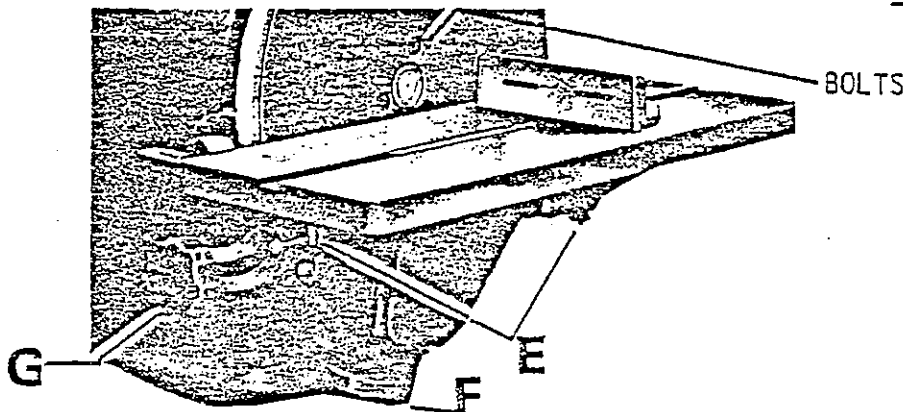
Adjustable swivelling fence and counting table makes bevel sanding both easy and accurate.

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 CROID 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 BRAMMER BELTS:-

6

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)

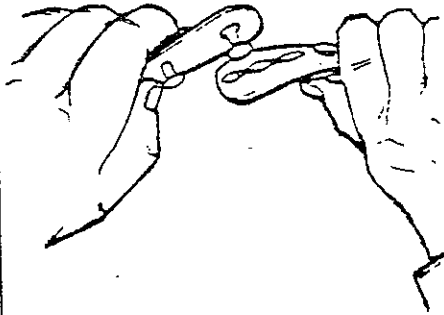
- FIG.1a:- Grip belt firmly in both hands, each thumb pressing on stud head, leaving one stud head uncovered.
FIG.2a:- Maintaining a firm hold, bring wrists closer together so that uncovered stud head slides into the oval hole in the centre of the link. A wriggling motion of the hands will help in this 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:-

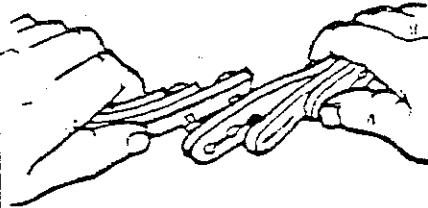
- (a) Grip belt firmly.
- (b) See that the belt is flexed over as far as possible, enabling link to lift over stud easily.

FASTENING.

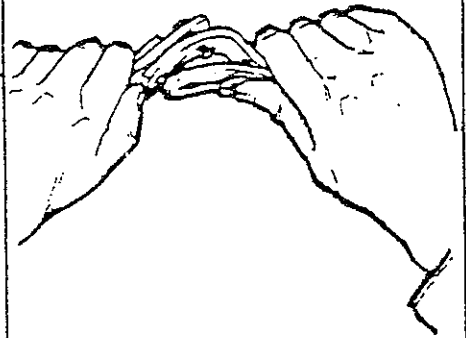
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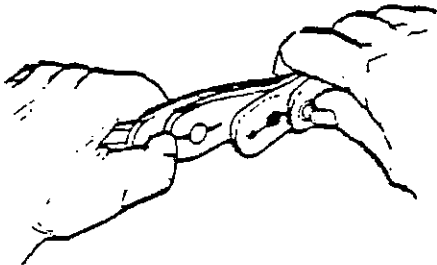
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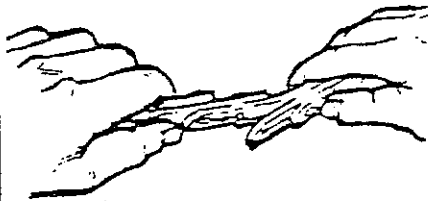
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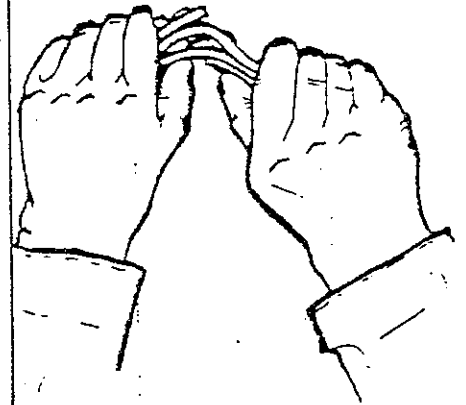
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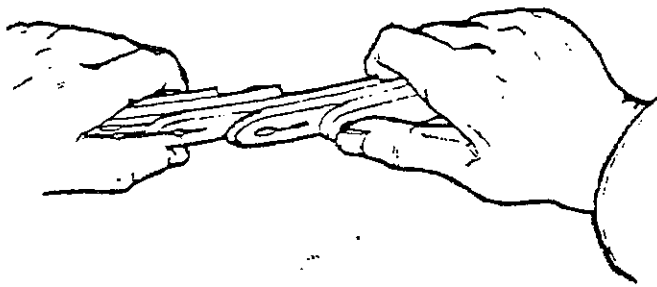


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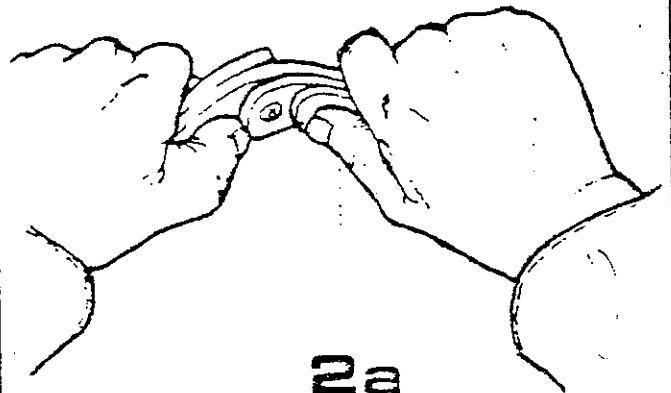


UNFASTENING.

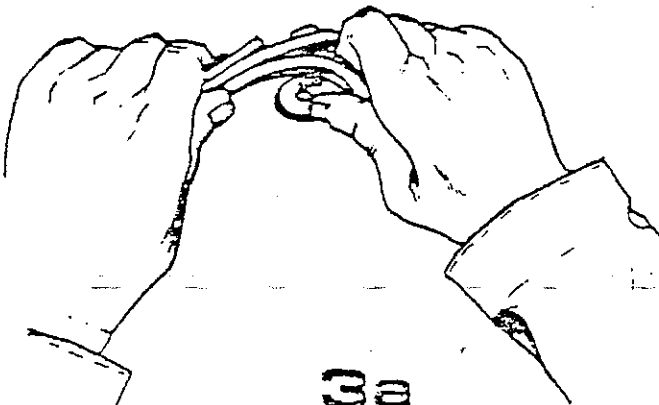
1a



2a



3a



4a

