it is due policy and that of our suppliers to review constantly the design and apacity of our products. With this in mind, we would remind our sustainers that whilst the dimensions and performance data contained herein are current at the time of going to press, it is possible that, due to the incorporation of latest developments to enhance performance, timensions and supplies were from those illustrated.

PLEASE INSERT SERIAL NUMBER OF MACHINE

Instruction Manual For







Power Band Resaw

TEMPORARY INSTRUCTION
BOOK FUR EEC

FUR REPLACEMENT PARTS. TOOLS AND ACCESSORIES

COMITACI : TELEPHONE (0287) 40177 SPARES DEPARIMENT TELEX 58693 (WADCLE)

WADEIN (CLEVELAND). A DIVISION OF WADEIN PLC. NORTH LIVERTON INDUSTRIAL ESTATE, LOFTUS, CLEVELAND, TSIT 402, ENGLAND.



SAFETY OF WOODWORKING MACHINES

Woodworking machines can be dangerous if improperly used. The wide range of work of which they are capable, requires adequate safeguarding arrangements against possible hazards.

Many injuries to machinists are caused by carelessness or failure to use the guards provided or to adjust them correctly.

WADKIN LTD., supply machinery designed for meximum safety which they believe, as a result of thorough testing, minimizes the risks inevitable in their use. It is the user's responsibility to see that the following rules are complied with to ensure safety at work:

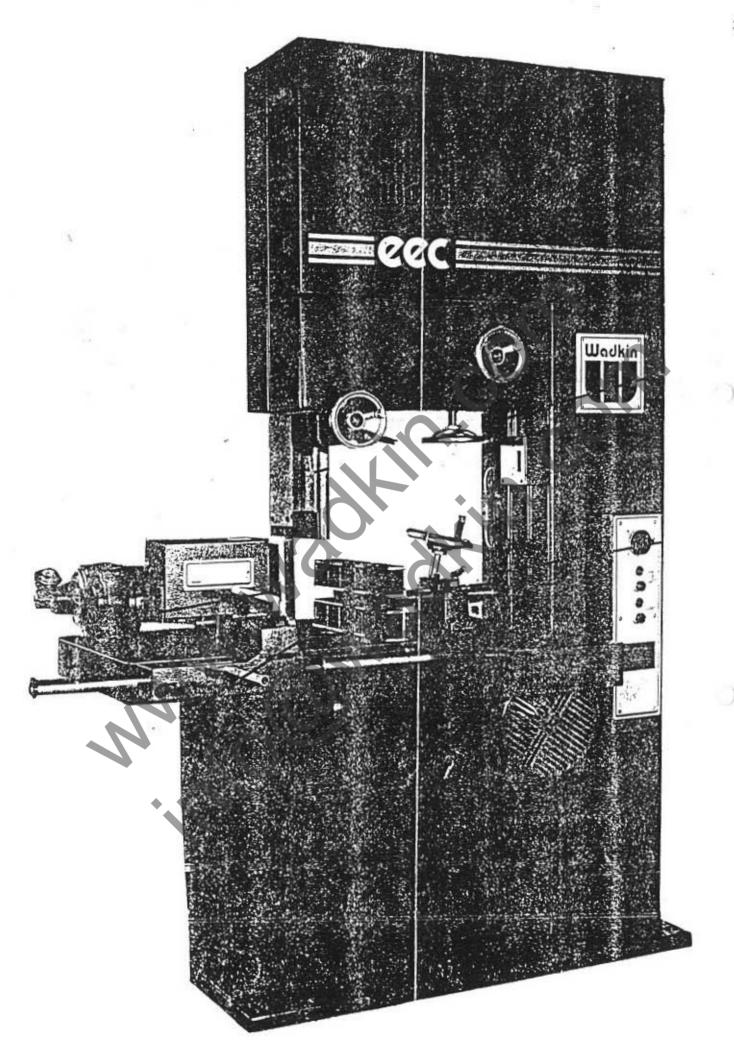
- The operation of the machine should conform to the requirements of the Woodworking Machines Regulations 1974. All guards should be used and adjusted correctly.
- 2. Safe methods of working only should be adopted as given in the Health and Safety Work Booklet No.41, "Safety in the Use of Woodworking Machines", (obtainable from Her Majesty's Stationery Office) and as advised by Wadkin Ltd.
- Only personnel trained in the safe use of a machine should operate it.
- Before making adjustments or clearing chips, etc., the machine should be stopped and all movement should have ceased.
- All tools and cutters must be securely fixed and the speed selected must be appropriate for the tooling.

SAFETY IS OUR WATCHWORD BUT THE USER MUST COMPLY WITH THE ABOVE RULES IN HIS OWN INTEREST. WE WOULD BE PLEASED TO ADVISE ON THE SAFE USE OF OUR PRODUCTS.

Safety

CAREFULLY READ INSTRUCTION MANUAL WITH PARTICULAR REFERENCE TO THE FOLLOWING INSTRUCTIONS:-

- II SLINGING, ie SAFE LIFTING LIMITS FOR SLINGS ETC.
- 2) INSTALLATION AND FOUNDATION, is SAFE WORKING AREA OF MACHINE AND BOLT POSITIONS, ETC.
- WIRING DETAILS, is WIRING DIAGRAM AND INSTRUCTION FOR SAFE WIRING OF MACHINE.
- MACHINE CONTROLS AND OPERATING INSTRUCTIONS
- SELECT CURRECT SPEED FOR CUTTER EQUIPMENT AND ENSURE COTTER ARE SECURELY LOCKED IN POSITION.
- SET GUARDS CORRECTLY TO COVER CUTTER EQUIPMENT AS MUCH AS POSSIBLE.
 - NOTE START/STOP CONTROL POSITION AND ISOLATOR SWICH POSITION (IF FITTED) BEFORE OPERATING MACHINE.
- . JSE FEEDING DEVICES WHERE POSSIBLE.
- REFER TO HEALTH AND SAFETY AT WORK BOOKLET No.41 (IN UK) FC=



STANDARD ITEMS DESPATCHED WITH MACHINE.

2 - Instruction Manuals

1 - Grease Gun

1 - 3mm Allen key

1 - 5mm Allen Key

1 - 8mm Allen Key

1 - 17/19mm Spanner

1 - Slinging instructions

1 - 2mm Alle: NEV

1 - 4mm Alle 'ev

1 - 6mm Allen Fev

1 - 13mm Spanner

1 - 24mm Spanner

CLEANING

Clean protective coating from all bright parts by applying a cloth soaked in parafin, turpentine or other suitable solvent.

WIRING DETAILS

The motor and control gear have been wired in before despatch. All that is required is to connect the power sumply at the mains entry box.

Points to note when connecting power supply:

- 1) Check the voltage, phase and frequency currespond to those wonder plate, also the correct chils and heaters are fitted to the starter.
- 2) It is important that the correct cable is well on give the correct voltage to the starter as running in less thanks will damage the motor.
- 3) Check the main line fuses are correct capacity. See *use list inside starter cover.
- 4) Connect the line leads to the appropriate terminals. See wiring diagram, Mains Entry.
- 5) Check all connections are sound.
- 6) Check the rotation of the motor for the correct direction, it this is incorrect, reverse any two of the line lead connections at mains entry box.

LUBRICATION

All bearings are sealed for life and require no lubrication. Grease Feeder Unit at point indicated weekly.

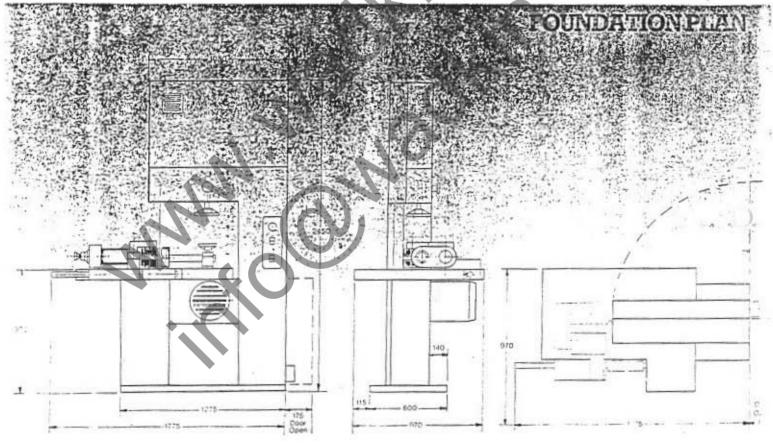
It is advisable to keep all bright parts covered with a thin film of oil to prevent rusting.

NOT LYQUIDGE

DESCRIPTION.

The machine is front loading and should be sited to allow working room for all capacities. Refer to foundation plan below and ensure floor is level, then mark floor for hole positions. Drill floor to suit 4-M10 rawbolts. These bolts are not provided with machine but can be supplied at an additional charge.





COMMISSIONING MACHINE.

Machines generally are despatched fully assembled, except for some export markets when they are stripped and packed in cases when the assembly instructions provided inside case should be referred to.

- 1) Rolt machine to floor (see foundation).
- Connect machine to power supply (see wiring details).
- 3) Clean protective coatino 'rom all parts (see cleaning).
- 4) It is recomended to connect machine to dust extraction plant The built in extraction outlet is 150mm (6"Dia) and requires 600 CFM for best results

FITTING OF RE-SAW BLADES.

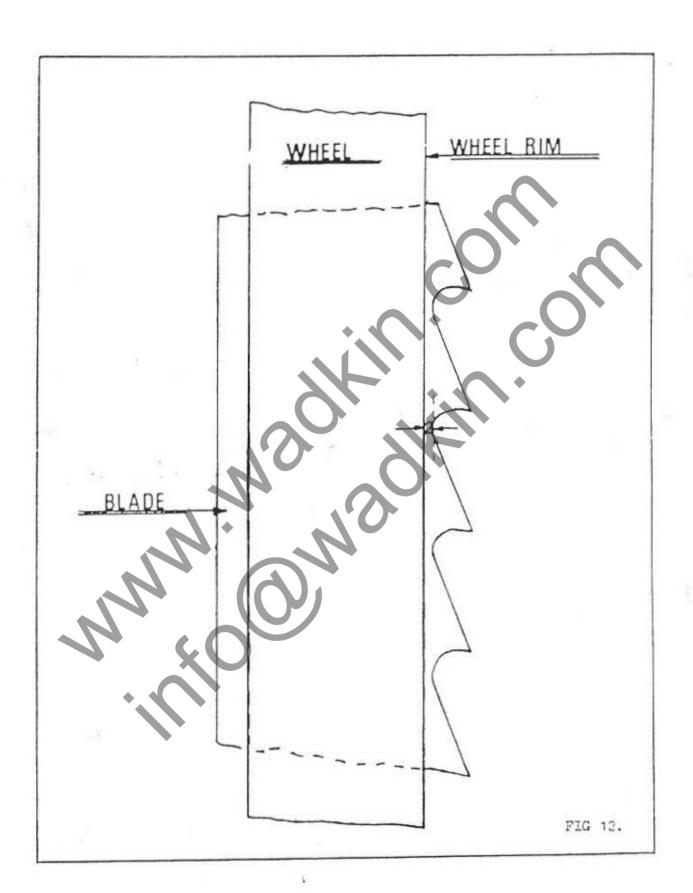
- 1) Open doors fully.
- 2) Adjast top wheel with handwheel "M" (FIG 13) to allow saw to be positioned on top and bottom wheels and slot saw into guides (see FIGS 13 to 16). NOTE: -

 - A) The saw guards are fixed and should not be removed.

 B) The saw guides are initially set at the works but may require slight adjustment. require slight adjustment.
- 3) Proceed to tension saw via saw tension handwheel "M" (FIG 13) until pointer on scale reads 'T'
- 4) Track blade by rotating top wheel by hand in a clockwise direction, the rout of the saw tooth should project the rim of the wheel by approx. 2mm (see FIGS 12 and 14). opprox. 2mm (see FIGS 12 and 14).

 Ide porine tracking loosen small handwheel Should the blade source until saw is tracking correctly. turn handwheel Then tighten small handwheel IMPOSTANT: -DO NOT TRACK BLADE WITH MOTOR RUNNING.

BOTTOM WHOLLS BARINGS 2-6308 285



BELT TENSION ADJUSTMENT.

Incorrect tension is the major cause of premature belt failure, some of its effects are as follows:

- Under-tensioning results in incorrect driven speed caused by belt slip and also causes screeching on start up. This can be corrected by increasing tension.
- 2) Over-tensioning can be more serious. Apart from obvious damage to the belt, it can cause overheated, damaged or burned out motor front end bearings. This is usually preceded by excessive stretch or too many take ups.

The POLY-V drive belt is correctly tensioned before the machine leaves the works.

After a period of time, the belt may start to slip due to run-in stretch and should be retensioned correctly as in "Belt Tension Adjustment".

BELT TENSION ADJUSTMENT

TO TENSION FOLY-V-BELT, PRODUCED AS FOLLOWS:

1) Isolate machine electrically.

- 2) Open bottom door of machine.
- 1) Loosen 2 M12 nuts. Securing motor to machine.
- 4) Attacked to one of the motor mounting bolts is a vertical adjustir. Adjust M12 nut one turn at a time until screeching on start up is eliminated then tighten motor belts.

NOTE: DO NOT OVER TENSION BELT.

5) Clase bottom doo

FOOTBRAKE.

A footbrake "O" is situated in the base of the machine as shown in FIG 13.
NOTE:-

Always bress main motor "stop" button before depressing foutbrake unless an electrically interlocked footbrake is fitted.

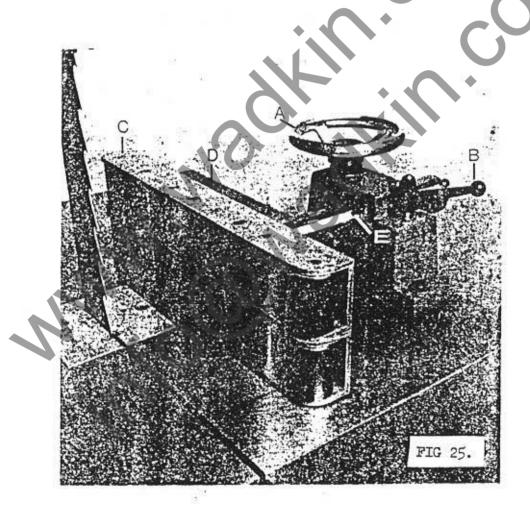
SPLIT LEVEL ROLLER BED FENCE.

This unit has a blade to fence capacity of $310_{\rm mm}$ (12") and is adjusted by hand wheel "A" (FIG 25) then locked in position by lock "B" (FIG 25).

The roller bed is split by slackening 2 handles "D" (FIG DS) and removing top section "C" (FIG 25), this allows top guide to be as close as practical to the stock when ripping small sections for increased accuracy.

The unit has a scale and adjustable pointer "E" (FNS 25) for setting fence to desired stock size.

The bed rollers are made from a dry bearing nylow which requires no lubrication.



DRIP FEED UNIT, WHEEL AND BLADE BRUSHES.

The purpose of this unit is to keep the wheels and blade (lean). The mixture of fluid (i.e. Diesel, Parafin, Dil) required will vary depending on the stock being sawn and a general guide is listed below.

- A) Dry resin free material generally no fluid taquited.
- B) Average material 1-1 Diesel or Parafin and Oil.
- C) Dry Resinous material 2-1 Diesel or Parafin and (1)
- D) Wet material 1-2 Diesel or Paratin and Dil.

The Dil bottle is turned On or Off by leter on top of the Dil bottle, and the flow adjusted by knurled screw . Generally the flow should be adjusted to 1 Drip/Sec.

NOTE: -

Turn off fluid feed when not in use.

CONTROLS

- The isolator "A" (FIG 27) is shown in the "ON" position, the isolator should be switched to the "OFF" position before making any adjustments to machine, carrying out any maintenance and while changing blades.
- 2) The "STOP / START" button "B" (FIG 27) controls the saw motor and will not function unless the isolator is switched on.
- 3) The "STOP / START" button "C" (FIG 27) controls the feed motor and will not operate unless the saw motor is running. After saw motor is switched on several seconds will elapse before feed control will function to allow main motor to switch automatically from STAR into DELTA windings
- 4) Should either motor trip out there are 2 reset buttons provided on the contactor box on the front of machine, it the machine trips out frequently the cause should be invst.cated and the main fuse rating checked or the overload settings adjusted.



FEEDING UNIT.

is unique feed unit has many features.

1) The variable drive unit "C" (FIG 26) gives food speeds ranging from 6-30m/min (18-100ft/min) and speed adjustment is by handwheel "D" (FIG 26), a dial is fitted to indicate feed speed.

"DO NOT ADJUST WHILE DRIVE IS STATIONARY"

- 2) Feed rollers "A" (FIG 26) are mounted on a swinging arm "B" (FIG 26) to cater for up to 100mm (4") variance in stock widtle this affords for example -:
 - A) Fast and easy positioning of feeder
 - B) Random feeding of varying stock width
 - C) Refeeding wide stock when producing narrow boards.

D) Feeding tapered stock and waney edge boards. The feeder to fence capacity is 310 (12") and sinder on bar "H" (FIG 26) in axis "X" then locked in desired posit on the handles "F" (FIG 26).

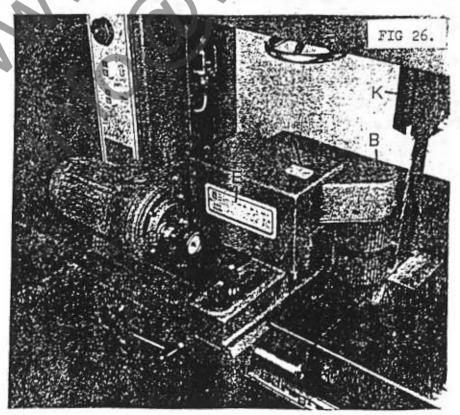
3) The feeder is also adjustable in axis "Y" to enable top guide to be lowered close to stock when ripping shallow raterial with out fouling feed roller and to cater to per of feed roller swing, particularly when table is canted or ripping angled stock.

IMPORTANT CHECK SWINDING ARM WILL NOT FOUL BLADE "J" (FIG 26)

OR TOP SAW GUARD "K" (FIG 25) OFTER PF-POSITIONING

FEED UNIT BEFORE OPERATING MACHINE.

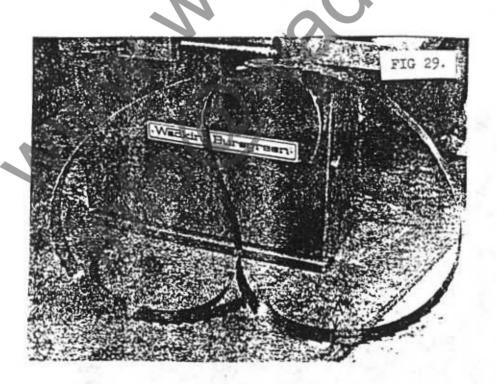
- 4) A plate "E" (FIG 26) is fitted to feeder as a guide to feed to stock depth to be sawn, however the feed speeds relative speed selected should take into consideration the type of stock to be sawn and the condition of the blade.
- 5) A grease point "G" (FIG 26) is provided, this point should be greased on a weekly basis depending on usage of machine.



THE RE-SAW BLADE

For the best results it is recommended to use blades manufactured from "UDDEHOLM SWEDISH STEEL" to the following specification -:

- 1) 20 gauge x 78mm (3") wine x 45mm (1.75") pitch swage or stelite tipped.
- 2) Approximate length of blace 5486mm (18ft)
- Blade should be pretensioned a ross width see
 (FIG 29).
- 4) The blades should be "SWAGE TOUTH" -c. 'SME' WOLLS" or "STELITE TIPPED" for MARDWOODS
- 5) Service and doctor re-saw blades resular,



CUTTING WITH THE POWER BAND RESAW. ______

Feed roller spring pressure.

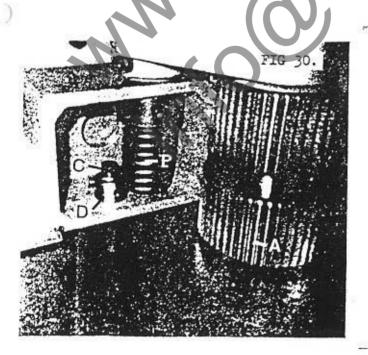
This pressure is pre-set at the works for the average type of work, however it may be desirable to adjust this to suit individual needs as follows -:

- 1) Short light stock (decrease spring pressure)
- 2) Long heavy stock (increase spring pressure)

To adjust spring pressure on feed roller (FIG 30

- 1) Loosen caphead "C" (FIG 30).
- 2) Rotate cam "D" (FIG 30) to increase or decrease tension on spring "B" (FIG 30).
- 3) Tighten caphead "C" (FIG 30).
 4) Check tension by pushing (eed roller "A" (FIG 30) back by hand.

NOTE -: See options



"IMPORTANT" RE-SAW BLADE MAINTENANCE.

Failure to maintain re-saw blades will result in inaccurate ripping and very short blade life.

It is important that the blades are regulary maintained that := resharpened and retentioned by a saw doctor and that the tens::is released from the saw blade when not in use.

It is usual practice for a re-saw blade to require maintenance after 4 hours running, the frequency at which maintenance will te required will depend to some extent on the following factors -:

- Correct type of blade for ripping stock (i.e. soft or wood, swage or stelite tipped blade)
 Correct feed speeds relative to depth of stock.
- 3) Correct tention applied to saw.

FAULT.	CAUSE.	REMEDY.
		======
Blades	Tension run out	Return to saw doctor for
unstable	of blade	for kettersioning
	Build up of resin	Clean wheels, blade and
	on wheels or blade	shesk wheel and plade brushes
Inaccuate	Dull blade	Re-sharpen blade
ripping	Insufficient tension applied	Check saw tension gauce
	Guides set	Re-set top and bottom saw guides
lades	Tension run	Return blades to saw
fracturing ♦	out of blade	doctor for re-tensioning
	Diserloading of saw	Check feed speeds
() () () () () () () () () ()	Over running saw blade	. Check running time
	Dirty blades	Clean wheels, blade and
	and wheels	check brushes
	Sawdust trapping	Check condition and
	between battom	position of thip
	wheel and blade	deflector plate

Setting up to Rip.

The versitility of the fence, feeder and guides provide many options when setting up to suit a wide variety of needs -:

- A) Wide shallow stock
- B) Deep thin stock
- C) Small sections
- D) Waney edge or tapered stock
- E) Feathered or angled stock (with table canted).
- F) Random feeding of stock with up to 100mm (4") variance in width.
- Re-feeding wide stock to produce thin boards without constantly re-positioning feed unit

Proceedure for wetting up.

- 1) Isolate machine.
- 2) Check blade is in good condition (change if necassary).
- 3) Check blade is correctly tensioned and tracked.
- 4) Set fence to finished stock width required
- 5) Adjust top guide as close as practical to suit stock depth, remove top fence section if necassary
- 6) Slide feed unit into position to suit stock being ripped so that the distance between the fence and the feed roller is smaller than the stock width, or the distance between the fence and the feeder body

 1s greater than the stock width, Note -: Maximum variance 100mm (4").
- 7) Check the feed arm and rollers will swing clear of the top guide and guard, adjust if necassary with locking handle
- B) Switch on machine, check and re-select feed speed
 - NOTE -: Use the bigher range of speeds for softwoods and the lower range for hardwoods relative to stock depth.

IMPORTANT" -: DO NOT ADJUST FEED SPEEDS WHILE UNIT IS

9) Aligne stock with fence and push into feeder, check finished stock width, adjust fence if required, proceed to rip.

REMEMBER TO -:

- 1) Switch on extraction plant if fitted.
- 2) Turn on drip feed unit if required.



SIMPLABELT VARIABLE SPEED DRIVES

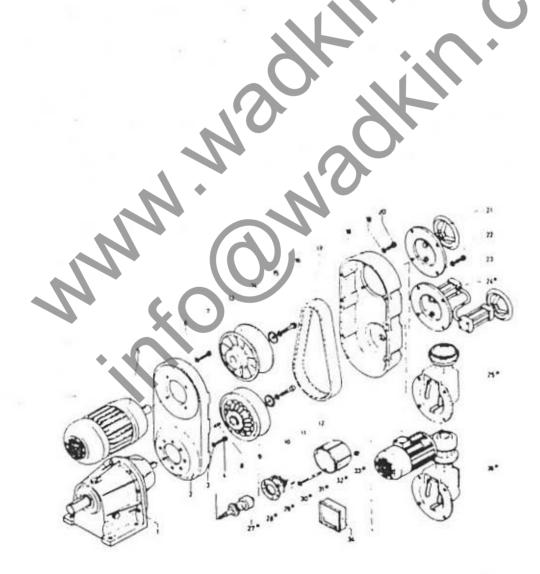
BELT. CHANGING INSTRUCTIONS

Simplatroll (Leeds)

59A MAIN STREET, GARFORTH, LEEDS LS25 1AF (0532) 860360/860460

FIG 51.

- 1) Run Simplabelt unit to fastest speed.
- 2) Switch machine off.
- 3) Screw adjustment handle (item 21 on drawing be) until minimum setting is achieved.
- Remove outer cover (item 18 on drawing bel 4)
- Rotate pulley, by hand, and ease belt off 5) gearbox pulley.
- 6) Refit new belt and reverse belt removal



AGW/JF

7.2.85

WADKIN (CLEVELAND) LIMITED REDCAR

Account No