BOOK NO. B870/1

IMPORTANT

It is our policy and that of our suppliers to review constantly the design and capacity of our products. With this in mind we would remind our customers 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, dimensions and supplies may vary from those illustrated.

PLEASE INSERT SERIAL NUMBER OF MACHINE

Instruction Manual For

AGSP

Tilting Arbor Panel Sawbench (With Scoring Saw Unit)

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EXTRA EQUIPMENT		48 tc			

FOR REPLACEMENT PARTS, TOOLS AND ACCESSORIES

CONTACT: DURHAM (091) 385 2385 (5 lines) Spares Dept: TELEX 53441 (BURDRM G) FAX: (091) 385 3311

Wadkin Durham, Fence Houses, Houghton-le-Spring, Tyne & Wear, DH4 5RQ, England.

HEALTH & SAFETY

SAFETY OF WOODWORKING MACHINES

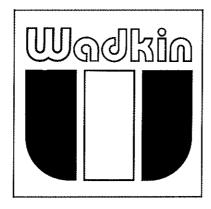
Woodworking machines can be dangerous if improperly used. The wide range of work of which they are capable, requires adequate safeguarding arrangements against possible hazards.

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

Wadkin plc supply machinery designed for maximum safety which they believe, as a result of thorough testing, minimizes the risks inevitable in their use. It is the users 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 plc.
- 3. Only personnel trained in the safe use of a machine should operate it.
- 4. Before making adjustments or clearing chips, etc., the machine should be stopped and all movement should have ceased.
- 5. 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.



Wadkin (Durham) Division of Wadkin plc, Fence Houses, Houghton-le-Spring, Tyne & Wear, DH4 5RQ. Telephone: (091) 385 2385. Telex: 53441 (Burdrm G).

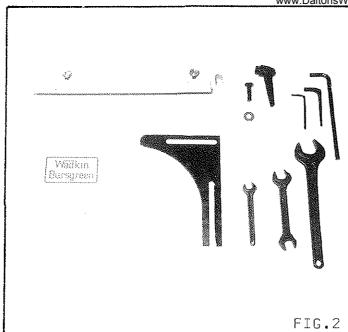
Safety

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

- 1) SLINGING, i.e. SAFE LIFTING LIMITS FOR SLINGS, ETC.
- 2) INSTALLATION AND FOUNDATION, i.e. SAFE WORKING AREA OF MACHINE AND BOLT POSITIONS, ETC.
- 3) WIRING DETAILS, i.e. WIRING DIAGRAM AND INSTRUCTIONS FOR SAFE WIRING OF MACHINE.
- 4) MACHINE CONTROLS AND OPERATING INSTRUCTIONS.
- 5) SELECT CORRECT SPEED FOR CUTTER EQUIPMENT AND ENSURE CUTTERS ARE SECURELY LOCKED IN POSITION.
- 6) SET GUARDS CORRECTLY TO COVER CUTTER EQUIPMENT AS MUCH AS POSSIBLE.
- 7) NOTE START/STOP CONTROL POSITION AND ISOLATOR SWITCH POSITION (IF FITTED) BEFORE OPERATING MACHINE.
- 8) USE FEEDING DEVICES WHERE POSSIBLE.
- 9) REFER TO HEALTH AND SAFETY AT WORK BLOKLET No.41 (IN UK) FOR SAFETY IN THE USE OF WOODWORKING MACHINERY.
- 10) DO NOT RUN LARGE SAWBLADES AT HIGH SPEED.

SPECIFICATION

Max. Dia. of Saw when Scoring	250mm	10 in
Max. Dia. of Saw when not scoring	300mm	12 in
Max. Saw Projection with 250mm Saw	7 5mm	3 in
Max. Saw Projection with 300mm Saw	100mm	4 in
Max. Thickness of Panel when not scoring	30mm	lį in
Max: Panel when Scoring	960 × 2500mm	38 × 98 in
Max. Panel when no Scoring	1900 × 2500mm	39 x 98 in
Max. Distance Saw to Stops on Sliding Table Crosscut Fence	2500mm	96 in
Max. Distance Saw to Rip Fence	916mm	36 in
Max. Distance Saw to Rip Fence with Extension Table	1250mm	50 in
Size of Main Table	815 × 711mm	32 x 28 in
Dia. of Saw Spindle	20mm	(linUSA)
Power of Motor - Standard	2.2kw	3 hp
- Optional	3.7kw	
Speed of Main Sawblade	3850rpm	5 hp
Die of Cooper Blade	105mm	
Speed of Scorer Blade	7000rpm	
Speed of Scorer Blade Approximate Floor Space Approximate Net Weight of Machine	2700 × 2700mm	100 0 100 4
Approximate Net Weight of Machine		106×106 in
Approximate Gross Weight of Machine	265kg	585 lb
	305kg	680 lb
	0.93 x 0.83 x 1.0 m	36 x 32 x 39 in
- Sliding Table	$1.74 \times 0.17 \times 0.13$ m	$68 \times 7 \times 5 in$



STANDARD ITEMS DESPATCHED WITH MACHINE

FIG.2

1 - Instruction Manual

1 - Sawguard SP12/64 c/w Visor

and Locking Handles l - 5mm Hexagon Wrench

1 - 6mm Hexagon Wrench

1 - 8mm Long Arm Hexagon Wrench
1 - 32 A/F Spanner

1 - 17/19 A/F Spanner

1 - 13 A/F Spanner

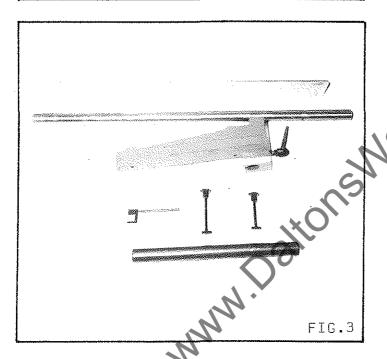


FIG.3

- Rip F ence Plate

Fence Bar Rip Fence Bracket

Rip Fence Plate Locking

bolt c/w Plastic Handwheels

- Rip Fence Pointer

- Rip Fence Support Bar

EXPORT ONLY

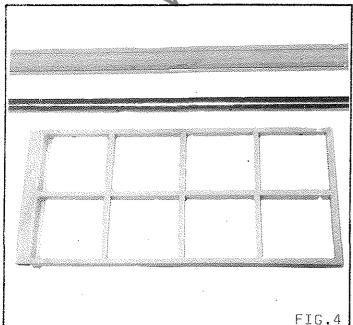
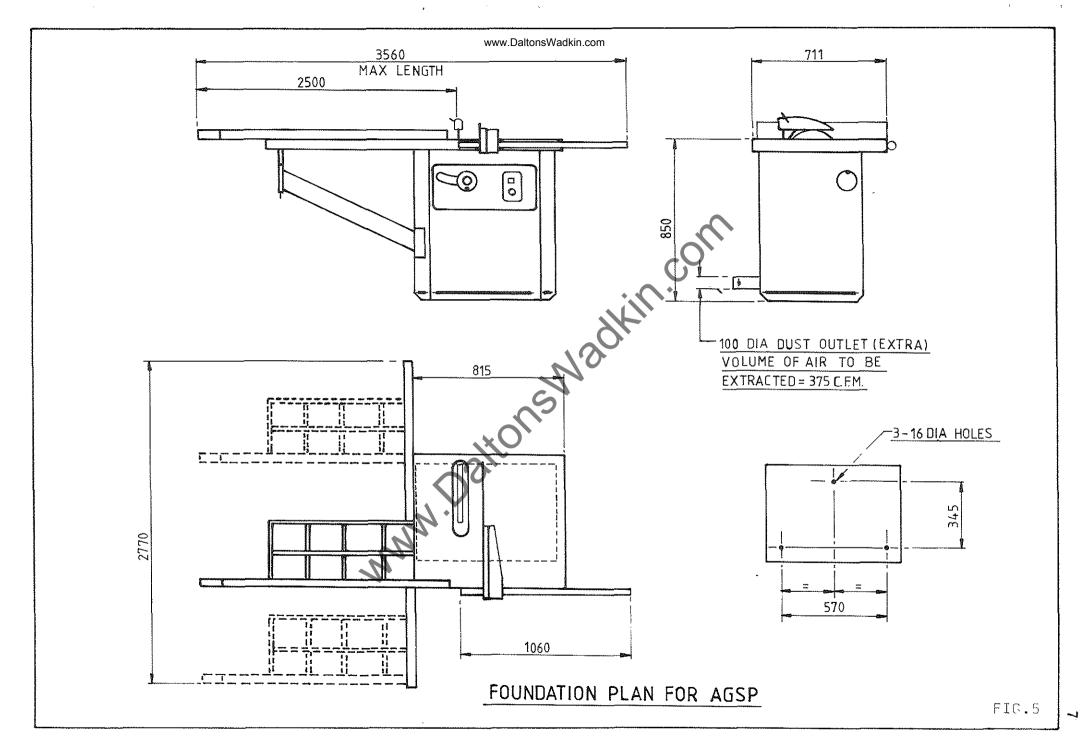


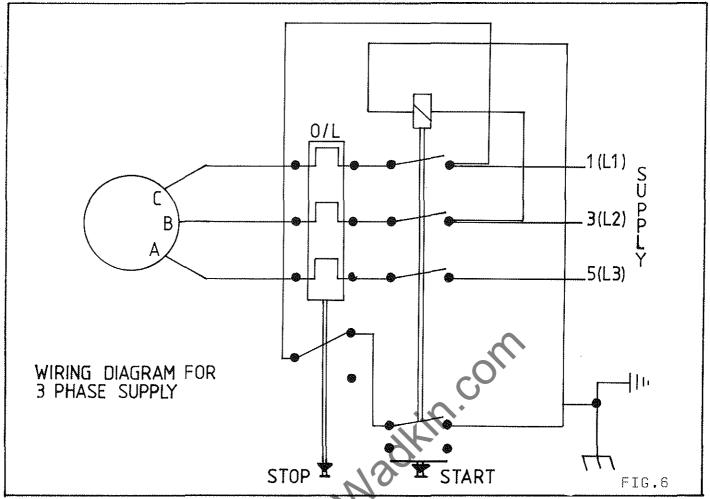
FIG.4

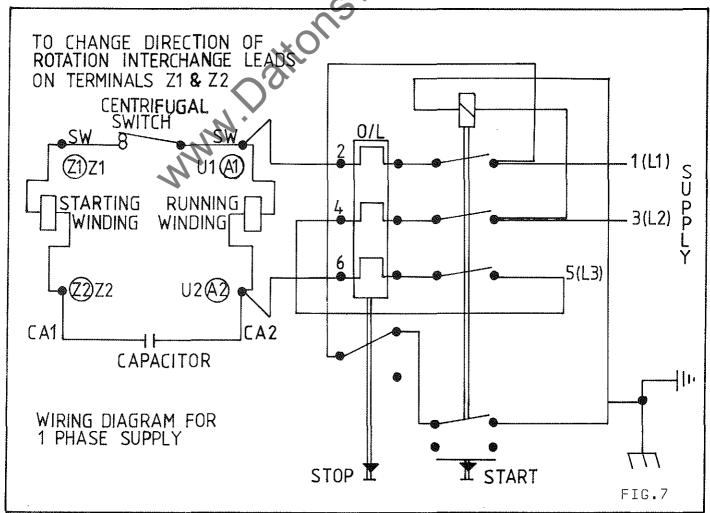
1 - Crosscut Fence c/w Turnover stops

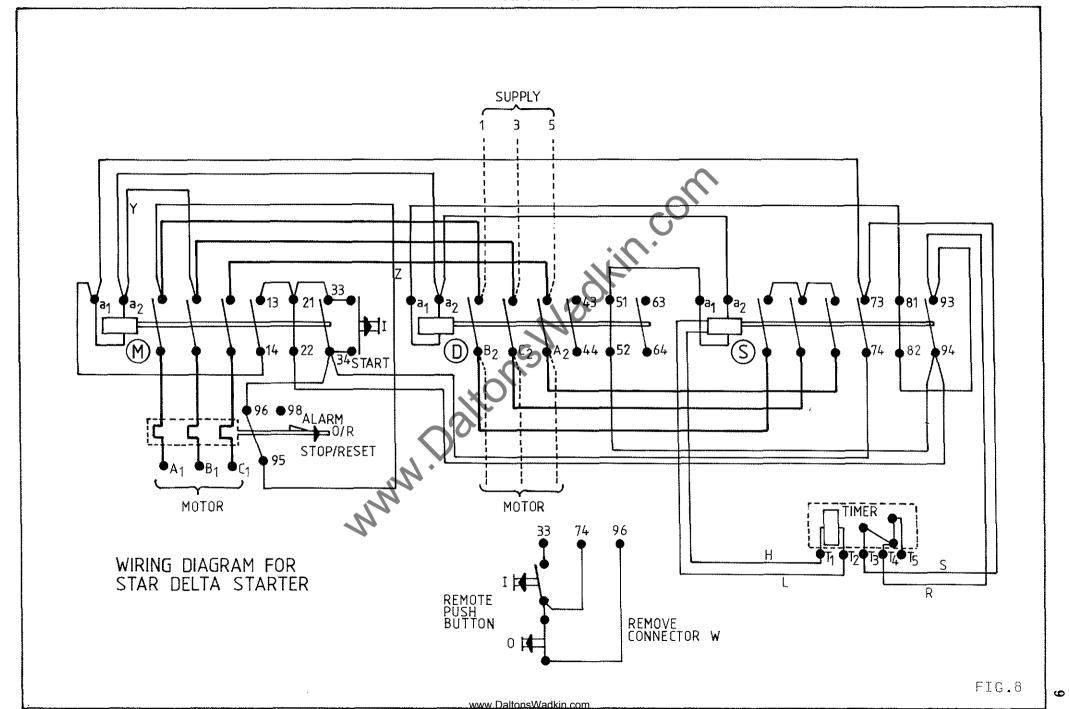
l - Slide Bar

1 - Sliding Table









SLINGING

Always use a sling within safe working load of machine weight. Approximate net weight of machine - 265 kg Approximate gross weight of machine - 305 kg Attach slings to machine as shown in FIG.9, ensuring damage will not be caused to machine during slinging operation.

IMPORTANT: DO NOT WALK OR STAND UNDER MACHINE DURING SLINGING OPERATIONS

CLEANING

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

FOUNDATION

Ensure floor is level, mark to suit 3 - M12 rawlbolts, refer to foundation plan FIG.5. Drill floor to suit rawlbolts. These bolts are not supplied with machine, but can be supplied at an additional charge. To obtain access to foundation bolts and stabilizing bolts, remove side door and open front access door using 17 A/F spanner (supplied) loosening top 2 bolts, thus allowing front access door to pivot open. Release 2 stabilizing bolts 'A' FIG.10, bolt machine to floor, jack bolts 'A' until they touch the floor, lock in position with locknuts, close both doors.

WIRING DETAILS

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

Points to note when connecting power supply:-

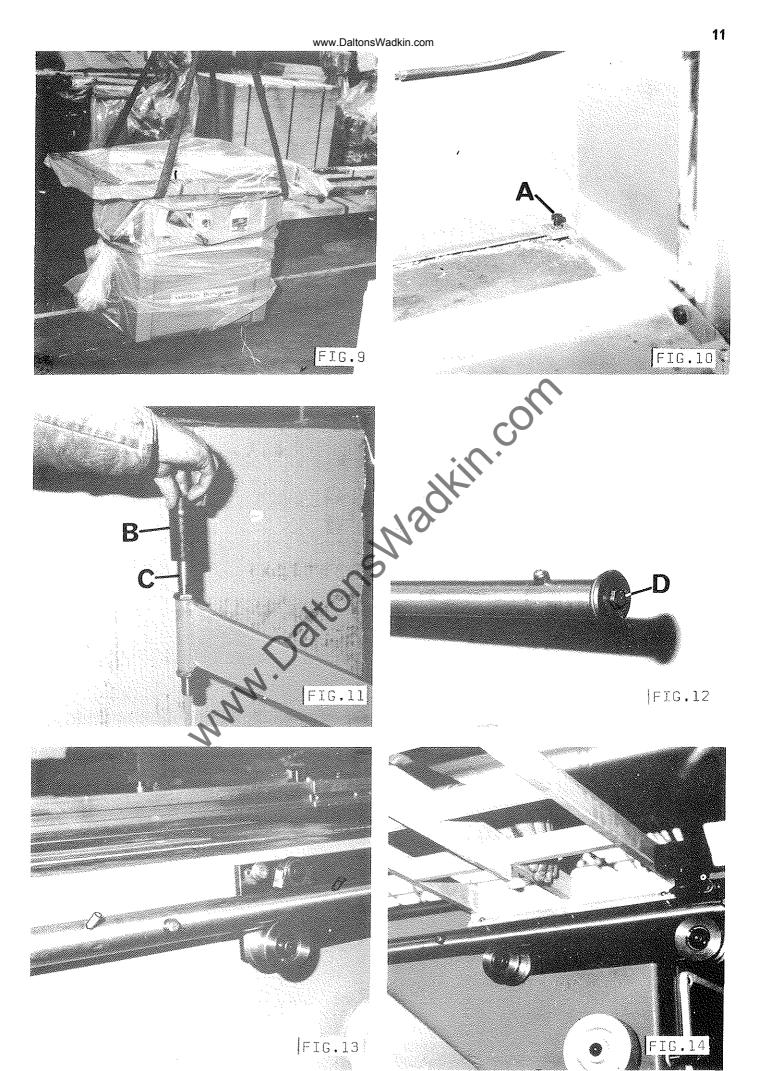
- Check the voltage, phase and frequency, correspond to those on the motor plate, also the correct coils and heaters are fitted to the starter.
- 2) It is important that the correct cable is used to give the correct voltage to the starter as running on a low voltage will damage the motor.
- 3) Check the main line fuses are correct capacity. See fuse inside front cover of instruction manual.
- 4) Connect the line leads to the appropriate terminals. See wiring diagrams FIG.6, FIG.7 and FIG.8.
- 5) Check all connections are sound.
- 6) Check the rotation of the motor for the correct direction if this is incorrect, reverse any two of the line lead connections.

LUBRICATION

All bearings are sealed for life and require no lubrication. Oil rise/fall screws, canting screw and slides - once weekly.

Approved lubricants, see page 26.

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



12

Machine for home market, the Machine for home market, the Machine Machine and crosscut fence, when fitted, are removed for the ease of transportation.

Machines for export market, the sliding table, crosscut fence, when fitted, and rip fence, are removed.

To re-assemble sliding table, proceed as follows:-

- 1) Position plastic support 'B' FIG.11, on swinging arm pin 'C'.
- 2) Loosen M1O hexagon head bolts and remove end stop 'D' FIG.12 from slide har.
- 3) Slide bar through rollers FIG.13, with the 2 slide bar studs pointing up and out, away from table. When slide bar is in position, secure end stop to slide bar FIG.12.
- 4) Lift table FIG.14 and locate table on the 2 slide bar studs. Locate nylatron outer support on under table web as shown in FIG.15. Secure table by 2 M8 aerotight nuts.
- 5) Secure the 2 fence location support blocks to edge of sliding table FIG.16, then position fence on blocks as shown and secure by locking knobs.
- 6) Locate guard onto front of table slide bar with M10 hexagon nut in the end of bar and M8 hexagon nut in site of bar.

To re-assemble rip fence, proceed as follows and refer to FIG.19:-Locate stude 'M' into the holes in the front of main table. Set fence bar parallel to table top and lock in position with nuts provided.

NOTE: DO NOT DISTURB LOCKNUTS AS THESE ARE SET IN FACTORY TO GIVE CORRECT FENCE ALIGNMENT.

Assemble fence and lock stop screw in end of fence bar. Fit fence support 'N' to table edge and ensure support is set level to table top.

GUARD AND RIVING KNIFE ADJUSTMENT

The riving knife and guard pise and fall with the saw. The riving knife should be adjusted to the closest practical distance from the saw teeth.

To adjust the riving knife to this position, proceed as follows:-

- 1) Isolate machine electrically.
- 2) Remove table insert.
- 3) Loosen M16 socket head screw 'A' FIG.17, and move riving knife 'B' both vertically and horizontally to correct position.
- 4) Tighten securely socket head screw 'A'.
- 5) Replace table insert.

The sawguard should then be adjusted to cover as much of the saw as possible.

FIXED RIVING KNIFE (AMERICAN SAWGUARD)

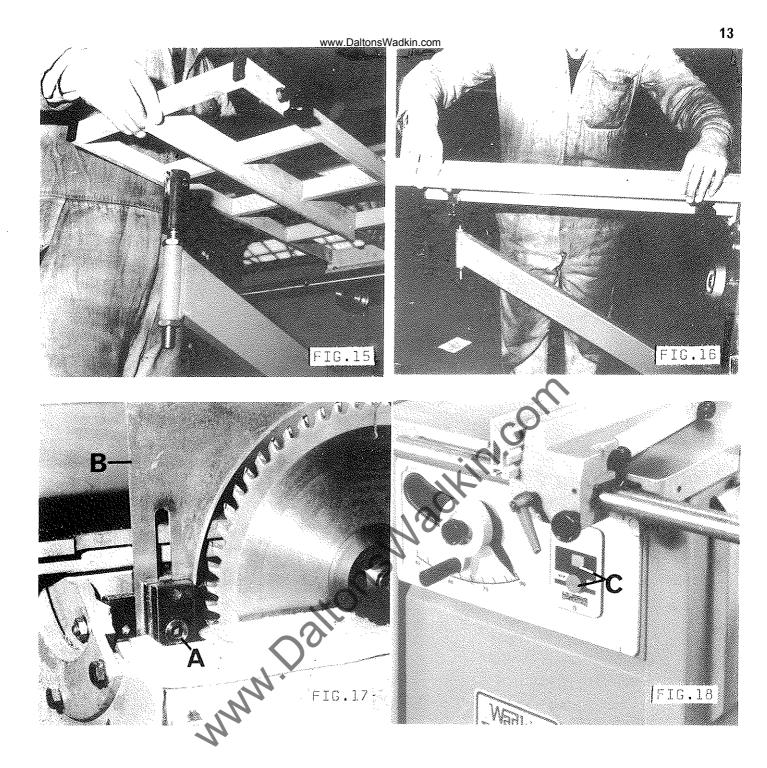
No adjustments necessary.

START/STOP CONTROLS

The start/stop buttons 'C' FIG.18, are conveniently situated on the front of machine.

ISOLATOR SWITCH (OPTIONAL EXTRA)

A lockable isolator switch cannot be properly and side of the start/stop controls.



RISE AND FALL CONTROLS

For rise and fall of saw arbor, proceed as follows:-

Release locking handle 'A' in FIG.19 and raise or lower the saw arbor by the handwheel 'B' to the required position then relock handle 'A'.

CANTING CONTROLS

The saw cants 45° to the right with positive stops at 90° and 45° . For canting of saw arbor, proceed as follows:-

Release locking handle 'C' in FIG.19 and turn handwheel 'D' working in conjunction with the canting scale indicated by the pointer to the required saw position. Relock handle 'C'.

RIP FENCE CONTROLS

The rip fence slides on a round bar fitted to front of table. Rapid fence adjustment and micro-adjustment are provided with an effective lock.

For rapid fence adjustment, proceed as follows:

- 1) Loosen locking handle 'E' FIG.19.
- 2) Position fence where required then turn locking handle 'E' to lock fence in position. A ripping capacity scale on fence slite bar 'F' is indicated by an adjustable pointer 'G' located in the fence body and secured by grubscrew 'H'.
- 3) For micro-adjustment, engage spring loaded handwheel 'J' in the racked fence slide bar.

Fence Plate Positions

The fence plate 'K' in FIG.19 has two positions. Position shown in FIG.18 is for use with deep stock, fence can be moved longitudinally to facilitate this. Position shown in FIG.19 is for use with faced panels, melamine, veneer, etc.

To change the fence plate position, proceed as follows:-

- Loosen handwheels 'L' in FIG.19 then slide fence plate from fence body.
- 2) Slide fence plate over the two locking plates to position shown in FIG.20, then relock handwheels 'L'.

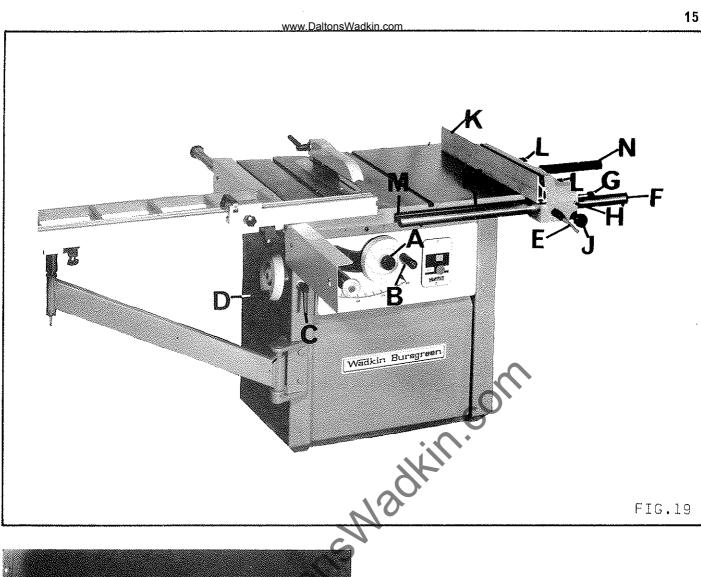
Fence Pointer Adjustment

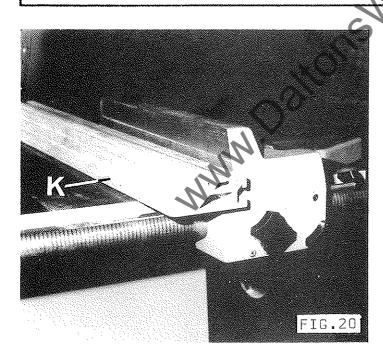
When the fence plate position has been changed as previously described, the pointer 'G' in FIG.19 must be reset accordingly.

To reset pointer, proceed as follows:-

- Loosen locking handle 'E' FIG.19, then move fence to a position which would allow a reasonable cut to be taken. Turn locking handle 'E' to lock fence in position.
- 2) Start machine, then feed a piece of timber past the sawblade keeping timber firmly against the fence. Stop machine.
- 3) Accurately measure the width of timber, then loosen grubscrew 'H' and set pointer 'G' accordingly. Relock grubscrew 'H'.

FIG.19





MITRE FENCE

The mitre fence 'A' in FIG.21 slides in either of two table slots and can be used at either side of the sawblade. Two stop rods 'B' are held together by two clamps and wingnuts 'C'. The stop rods are secured to the fence body by either of the two thumbscrews 'D' depending on which side of fence body the rods are used.

NOTE: Always ensure the stop rods are set clear of the sawblade or serious damage will result when machine is operated.

The mitre fence can be rotated through 90 degrees with positive stops at 90 degrees and 45 degrees.

To position mitre fence at required angle, loosen handwheel 'E' in FIG.21, then pull plunger 'F' from location, position fence as required using scale 'C', then relock handwheel 'E'

NOTE: Always ensure table slot is clean when using mitre fence.

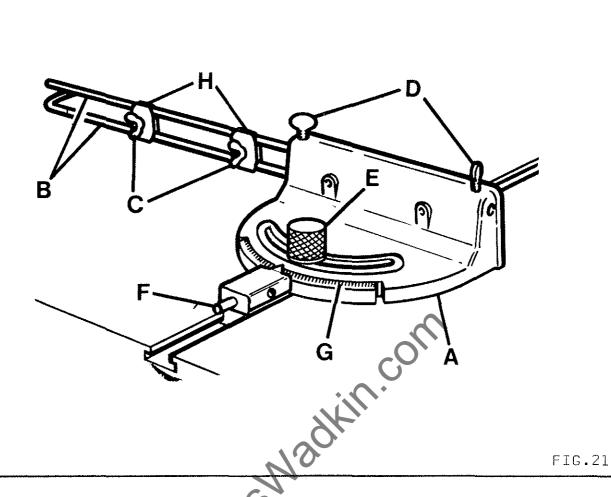
USE OF MITRE FENCE STOP RODS

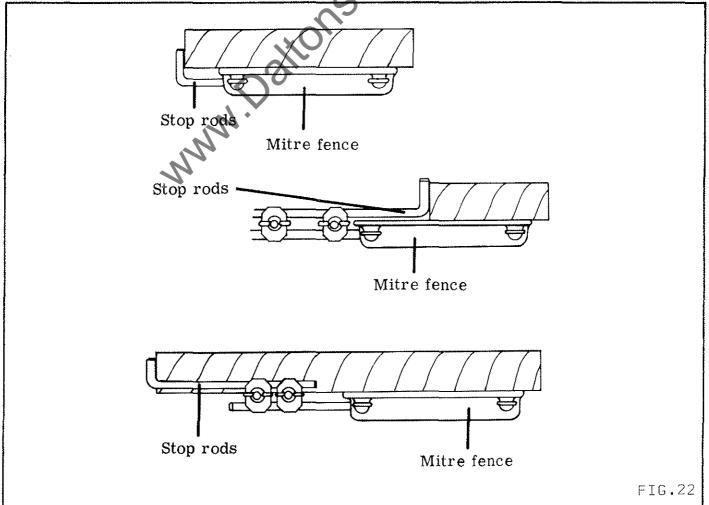
Accurate repetitive cutting can be made using the stop rods, see FIG.22.

The rods are held in the fence by thumbscrews 'C' in FIG.21 and the stop rods held together by the two clamps 'H'. To adjust the rods by the clamps, loosen the wingnuts 'D'. See FIG.22 for several positions in which the stop rods can be used.

NOTE: Take care that the stop rods are always clear of the saw or serious damage will result.

NOTE: Take care that the stop rods are always clear of the saw or serious damage will result.





MOUNTING MAIN SAWBLADE

To mount the main sawblade, proceed as follows:-

- l) Isolate machine electrically.
- 2) Remove table insert.
- 3) Move saw spindle to uppermost position.
- 4) Locate 8mm allen key (supplied) in main saw spindle as shown in FIG.23, then remove arbor nut (left hand thread) and front saw flange.
- 5) Select required blade (250 dia. max. if scoring is required) and check blade is free from dirt, gum or sawdust, especially where it will be gripped by saw flanges. Check rear saw flange is clean and fit saw on arbor.

NOTE: SAW TEETH MUST POINT TOWARDS FRONT OF MACHINE. CHECK FRONT SAW FLANGE IS CLEAN AND FIT ON ARBOR.

NOTE: IF FLANGES AND SAW ARE NOT CLEAN, THE SAW WILL RUN OUT OF TRUE CAUSING VIBRATION.

- 6) Lock saw securely in position with arbor nut (left hand thread) as shown in FIG.24.
- 7) Replace table insert.
- 8) Position sawguard depending on thickness of timber to be worked.

NOTE: SAWGUARD MUST COVER BLADE AS MUCH AS IS PRACTICABLE. CLEARANCE BETWEEN SAWGUARD AND TIMBER SHOULD NEVER EXCEED 12mm (WOODWORKING MACHINE REGULATION 1974 16(3) FIG.25)

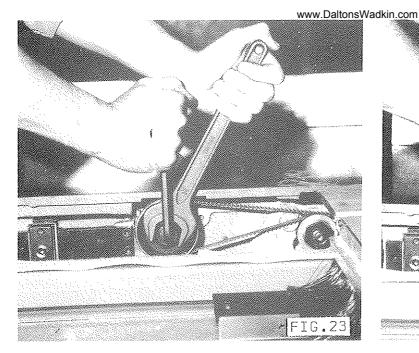
MOUNTING SCORING SAWBLADE

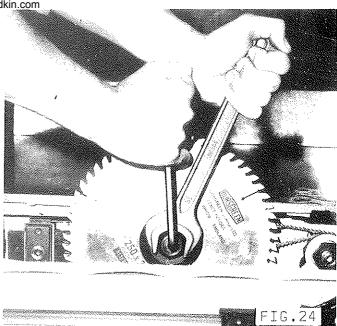
To mount the scoring sawblade, proceed as follows:-

- 1) Isolate machine electrically.
- 2) Remove table insert
- 3) Move scoring saw spindle to uppermost position.
- 4) Locate 8mm allen key (supplied) in scoring saw spindle as shown in FIG 25 and remove scoring saw nut (right hand thread) with spanner supplied.
- 5) Fit scoring saw with teeth pointing towards rear of machine FIG.27.

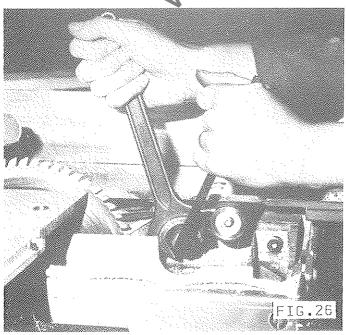
NOTE: SEE FIG.28 FOR USE OF SHIMS AS FITTED BETWEEN SCORING SAWBLADES FOR CORRECT KERF ALIGNMENT.

6) Replace table insert.



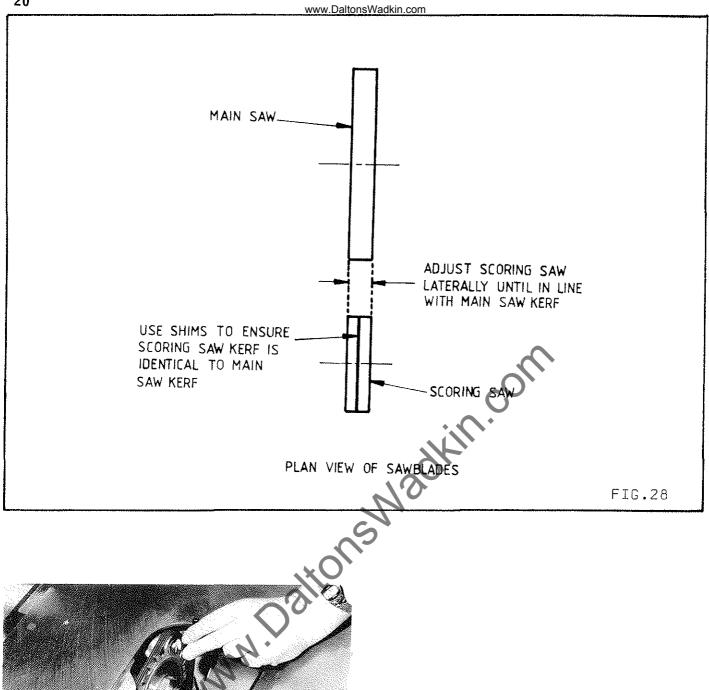








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SCORING SAW

Is designed to prevent spelching of all materials including plywood, fibreboard, chipboard, thicker solid plastics and materials having two face layers of veneer, etc.

A twin blade scoring saw must be used and is supplied with 3 shims of 0.010", 0.005" and 0.003" thick. These shims can be positioned between the blades as required to ensure the scoring saw kerf is identical to, or wider than, the main saw kerf.

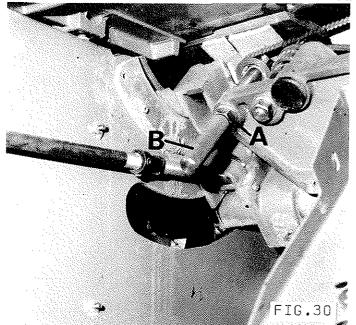
Scoring saw lateral and vertical adjustments are provided to ensure accurate alignment to thickness of main sawblade, so that brittle materials can be cut with perfect finish on upper and lower edges at both sides of cut.

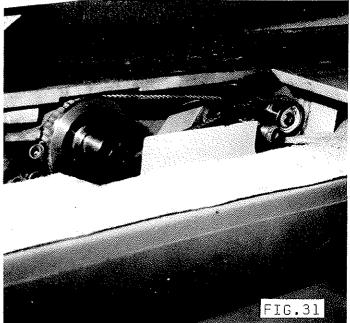
NOTE: SET SCORING SAW VERTICALLY TO ALLOW A MINIMUM SCORE IN MATERIAL TO BE CUT.

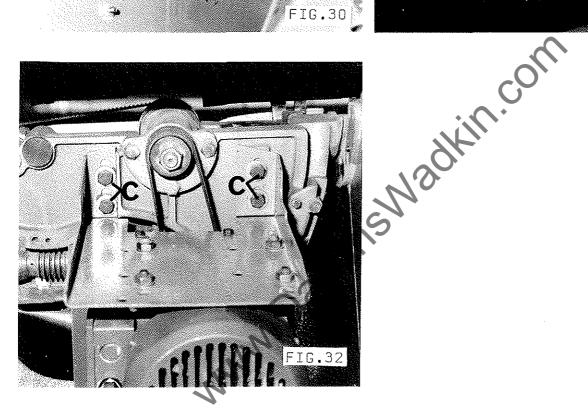
SCORING SAW ALIGNMENT TO MAIN SAWBLADE

- Place a steel rule or similar straight edge across main blade and scoring blade to check approximate lateral alignment.
- 2) Lateral adjustment to scoring saw blade is by locating 6mm allan key (supplied) in scoring saw spindle as shown in FIG.29 and laterally adjust sawblade by turning allen key in a clockwise or anticlockwise direction.
- 3) Vertical adjustment of scoring sawblade is automatically compensated by raising or lowering the main sawblade.

 NOTE: MAXIMUM THICKNESS OF TIMBER WHEN SCORING = 30mm.
- 4) Proceed to take trial cuts to establish the accuracy of the alignment of the scoring saw blade with the main blade. The correct alignment is shown in FIG.28.







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BELT TENSION OR BELT CHANGING ON SCORING SAW

The scoring saw is driven by a 'Poly-Vee' belt from the main saw spindle.

To tension or change belt, proceed as follows:-

- 1) Isolate machine electrically.
- 2) Remove table insert.
- 3) Remove both saws as previously described, page 18.
- 4) Cant saw arbor to 45° as previously described, page 14.
- 5) Remove door.
- 6) Release belt tension from inside of machine by loosening locknut 'A' with spanner (supplied) FIG.30 and turning handle 'B' clockwise.
- 7) Remove belt from scoring saw tension pulley and then from main saw flange.

To fit new belt, proceed as follows:-

NOTE: REVERSE BELT SO GROOVES ARE ON OUTSIDE

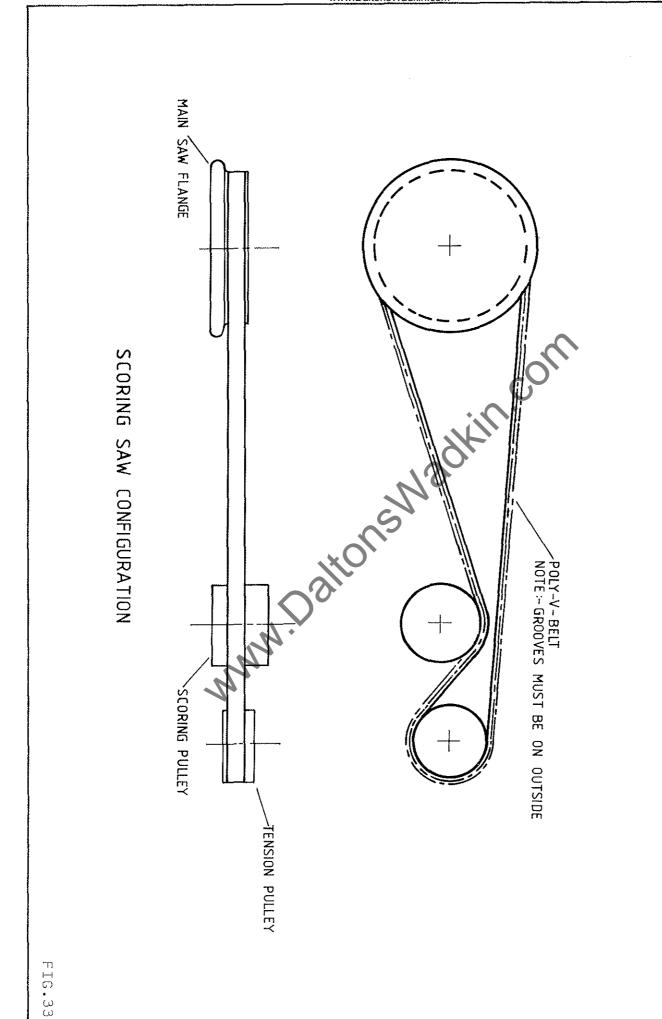
- 8) Replace belt over main saw flange as shown in FIGS.31 & 33.
- 9) Place belt over the top of scoring pulley and round tension pulley as shown in FIGS.31 & 33.
- 10) Re-tension belt from inside of machine by turning handle 'B' anti-clockwise until freeplay has been taken out of belt. Turn handle a further 1/16 of a turn to obtain correct tension, belt should feel reasonably tight. Relock locknut 'A' with spanner while holding handle 'B'.

BELT TENSION ON MOTOR

The saw spindle is driven by a 'Poly-Vee' belt from a 2.2kw or 4kw motor giving a speed of 3850rpm.

To tension or change the belt, proceed as follows:-

- 1) Isolate machine electrically.
- 2) Remove door
- 3) Loosen the 4 M10 hexagon head bolts 'C' FIG.32.
- 4) Move motor platform until belt is tensioned.
- 5) Relock hexagon head bolts.
- 6) Replace door.



SAFETY SECTION

All safety precautions should be taken to comply with relevant safety regulations, i.e. Woodworking Machine Safety Regulations 1974 No. 903 (Great Britain). Always adjust the riving knife and guard to protect as much of the saw as is possible. adjustments have been previously described.

Do not use sawblades at higher than recommended speed. When changing sawblades, belts or any other maintenance etc., always isolate the machine electrically. Use a wood push stick as FIG.44 much as practicable when feeding timber, to avoid accidents.

SAWBLADES

For best results, we recommend the purchase of sawblades from Wadkin (Durham).

Sawblades available for scoring (kerf to be 3.2mm).

250mm diameter \times 20mm bore TCT sawblade B-S-337

105mm diameter x 20mm bore TCT split scoring sawblade B-S-247

Other sawblades available:-

305mm diameter x 20mm bore alloy rip sawblade B-S-281

305mm diameter \times 20mm bore alloy crosscut sawblade B-S-284 254mm diameter \times 20mm bore alloy rip sawblade B-S-278

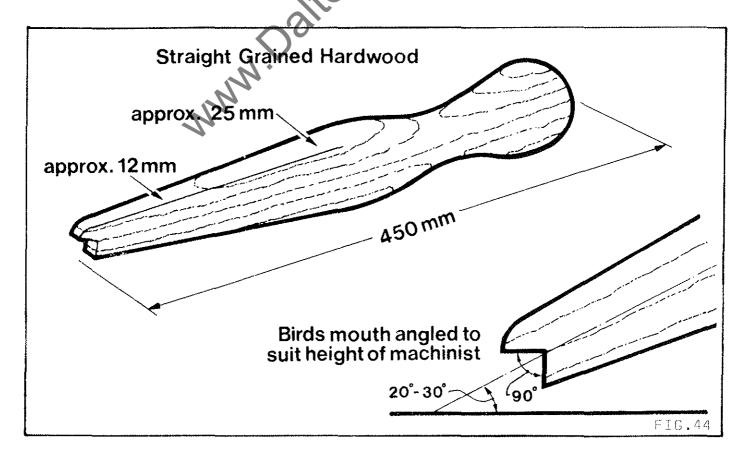
254mm diameter x 20mm bore alloy crosscut sawblade B-S-276

254mm diameter x 20mm bore TCT sawblads for ripping B-S-293

NOTE: 254mm DIAMETER MAXIMUM SAWBLADE WHEN SCORING IS REQUIRED

305mm diameter x 20mm bore TCT sawblade for ripping B-S-345

MOTOR IS FITTED) (FOR USE ONLY WHEN 3.7KW (5HP)



Application	APPROVED LUBRICANTS						
	Castrol	B.P.	Shell	Esso	Texaco/Caltex	Wadkin	
Worm Boxes	ZN220	Energol CS320	Vitrea 320	Spartan EP220	Regal Oil 320	L2	
General Lubrication	Magna 68	Energol HP68	Vitrea 68)	Nuray	Ursa Oil P68	L4	
Pneumatic Lubricators	Hyspin AWS32	Energol HL32	Tellus 37	Nuto H32	Rando Oil HD32		
Grease	Spheerol AP3	Energrease L53	Alvania R3	Beacon 3	Regal Starfalk Premium 3	L6	
Brake Cables	Brake Cable grease	Energrease L21M	Alvania R3	Esso Multi- purpose grease			

MACHINE PARTS LIST

INDEX

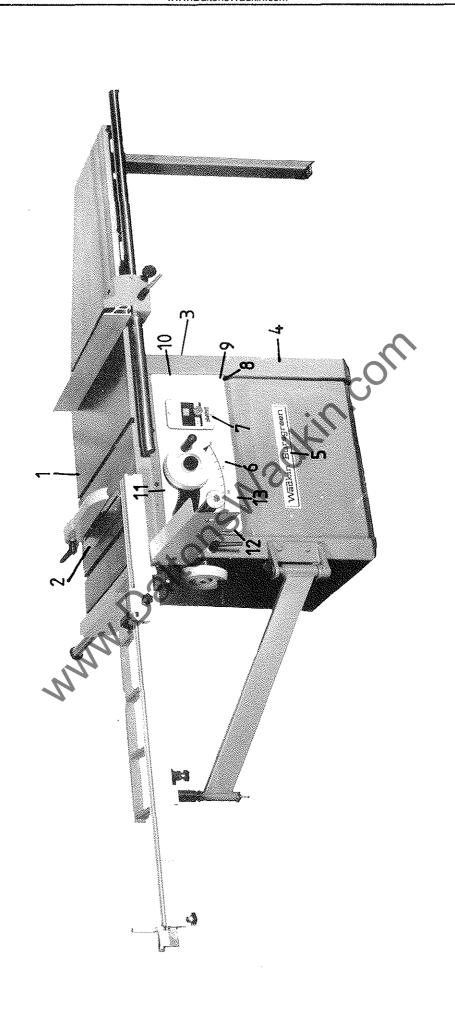
Base Assembly Rise and Fall and Trunnion Assembly Saw Drive Motor Assembly	Page Page Page	30	to	31
Main Saw Spindle Assembly	Page			
Scoring Saw Assembly	Page			
Riving Knife and Sawguard Assembly	Page			
Rip Fence Assembly	Page	38	to	39
Sliding Table Assembly	Page	40	to	4]
Crosscut Fence Assembly	Page			
American Sawguard	Page	51	to	52

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ILLUSTRATED PARTS LIST

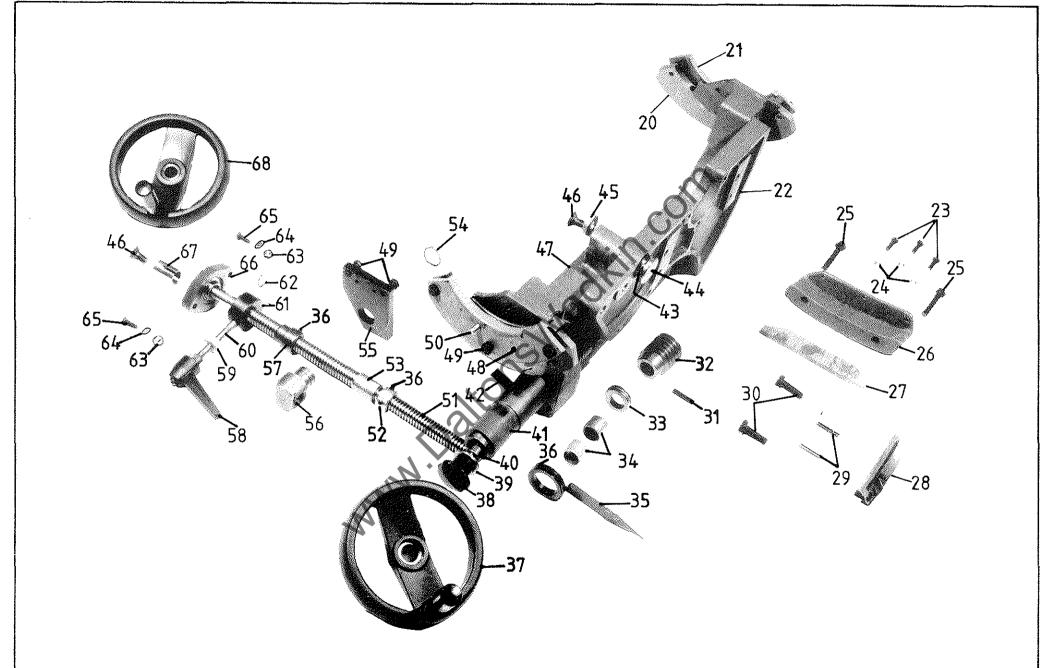
ASSE	ASSEMBLY:- BASE			
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION	
1 2 3 4 5 6 7	\$25-666 \$25-667 \$25-601 \$25-598 \$C-\$-348 \$25-599 \$51-16-155 \$51-16-155 \$51-16-156 \$51-16-156	44444444	Main Table Finger Plate Side Door for Base Base Nameplate Control Plate MEM 647 ADS/F Starter 415-3-50 2.2kw MEM 637 ADS/F Starter 380-3-50 2.2kw MEM 817 ADS/F Starter 220-3-50 2.2kw MEM 847 ADS/F Starter 415-3-50 4kw	
8 9 10 11 12 13	K51-16-160 K51-16-161 BEL-51 BEL-52 S25-646 S25-675 S25-674 SP12-155		MEM 1237 ADS/F Starter 380-3-50 4kw MEM 1627 ADS/F Starter 220-3-50 4kw Corner Moulding Cap for Corner Moulding Extrusion for Nameplate	
	3	MA	Extrusion for Wameplate Extrusion for Nameplate	





ILLUSTRATED PARTS LIST

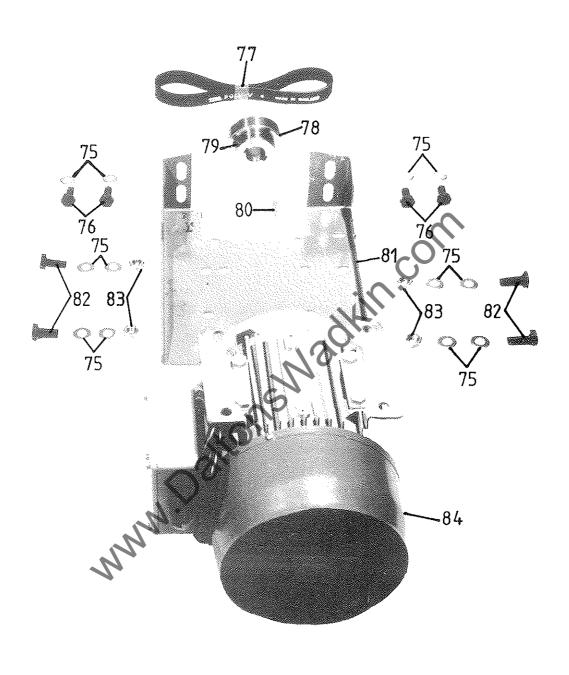
ASSE	ASSEMBLY:- RISE AND FALL AND TRUNNION					
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION			
22122345678901234567890123456789012345655555555556666666666666666666666666	\$25-3 \$25-7 \$P12-8 \$05-25-503 \$05-27-108 \$25-571 \$25-570 \$25-14 \$05-20-599 \$05-25-531 \$05-25-531 \$05-25-531 \$05-26-112 \$05-26-112 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-26-112 \$0732-154 \$05-25-618 \$05-26-190 \$05-25-618 \$05-25-340 \$05-25-340 \$05-25-340 \$05-25-361 \$05-25-613 \$0732-37 \$05-25-613 \$0732-37 \$05-25-614 \$05-25-613 \$0732-37 \$05-25-614 \$05-25-613 \$05-25-614 \$05-25-613 \$05-25-614 \$05-25-614 \$05-25-613 \$05-25-614 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502 \$05-25-502	2213321112221511111131121482 11111111112221 1	Trunnion Slides Trunnion Trapping Plates Rise and Fall Slide Bracket M6 x 20 Long Hexagon Set Screws M6 Locknuts M8 x 55 Long Hexagon Set Screws Trapping Bracket Retaining Strip Racked Quadrant for Rise and Fall 6 Dia x 30 Long Groverlok Nowels M10 x 30 Long Groverlok Dowels M10 x 30 Long Groverlok Dowels Worm 51104 Thrust Race 20 Bore x 25 D/R x 20 Long Oilite Bushes Canting Pointer M6 x 6 Long Socket Set Screws Rise and Fall Mandwheel M10 Locking Rnob Handwheel Washer Rise and Fall Shaft Rise and Fall Screw Bearing Shaft M12 x 80 Long Dog Point Socket Screw EP x 8 Bump Washers Rise and Fall Pivot Washer for Rise and Fall Pivot Washer for Rise and Fall Pivot Washer for Rise and Fall Pivot M10 x 20 Long Countersunk Socket Screws Trunnion Bracket 6 Dia x 12 Long Groverlok Dowels M6 x 20 Long Nicked Brass Grubscrew with M8 Locknuts Canting Screw Stop Nut Stop Coller 7100-025 External Circlip Canting Nut Pivot Plate Rise and Fall Nut Locking Nut M10 x 90 Long Stud Canting Lock Bush 7100-016 External Circlip M8 Nuts 6mm Washers M6 x 16 Long Hexagon Set Screws M7 Nut Flore Te Flanged Bearing with RHP SLFL16 Inner Bearing Tappered Bush for Handwheel			
68	K51-27-208	1	Canting Handwheel www.DaltonsWadkin.com			





ILLUSTRATED PARTS LIST

ASSE	ASSEMBLY:- SAW DRIVE MOTOR				
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION		
76 77 78	K05-28-104 K05-25-530 K51-04-503 SP12-44 SP12-45 SP12-46 SP12-47	12 4 1 1 1	10mm Washers M10 x 25 Long Hexagon Set Screws 220 J8 Poly 'V' Belt Motor Pulley (2.2kw, 3ph, 50 cycle) Motor Pulley (3hp, 3ph, 60 cycle) Motor Pulley (4kw, 3ph, 50 cycle) Motor Pulley (3hp, 1ph, 60 cycle) (5hp, 3ph, 60 cycle)		
80	K05-26-126 K51-20-110	2	M8 x 12 Long Socket Set Screws 8 x 7 x 32 Long Feather Key (2.2kw,3ph, 50 cycle) (3hp,3ph,60cycle)		
	K51-20-113	1	8 x 7 x 40 Long Feather Key (3hp,1ph,60cycle) (4kw,3ph,50cycle) (5hp,3ph,60cycle)		
82 83 84	\$25-238 K05-25-531 K05-27-103 K51-15-108 K51-15-102 K51-15-133 K51-15-141		Motor Platform M10 x 30 Long Hexagon Set Screws M10 Nuts D90S TEFV Motor 2.2kw, 3000rpm, 3ph, 50 cycle D90S TEFV Motor 3hp, 3600rpm, 3ph, 60 cycle ED100LB TEFV Motor 3hp, 3600rpm, 1ph,60cycle D100L TEFV Motor 4kw, 3000rpm, 3ph, 50 cycle D100L TEFV Motor 5hp, 3600rpm, 3ph, 60 cycle		

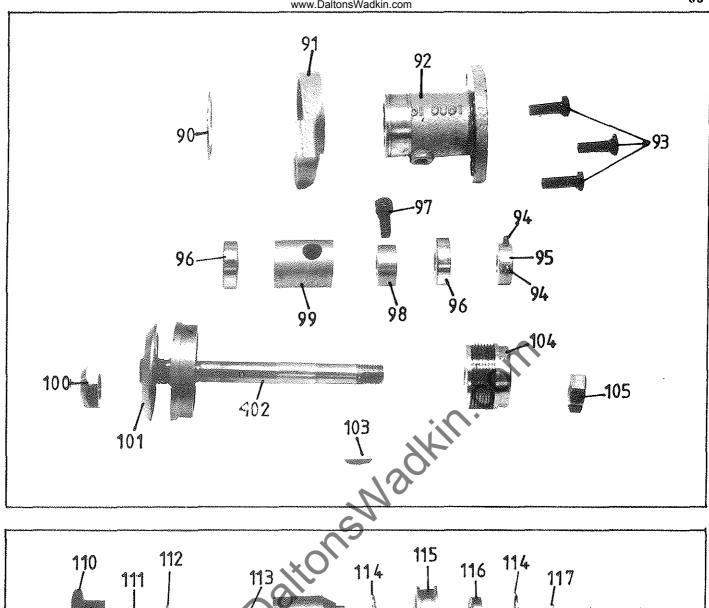


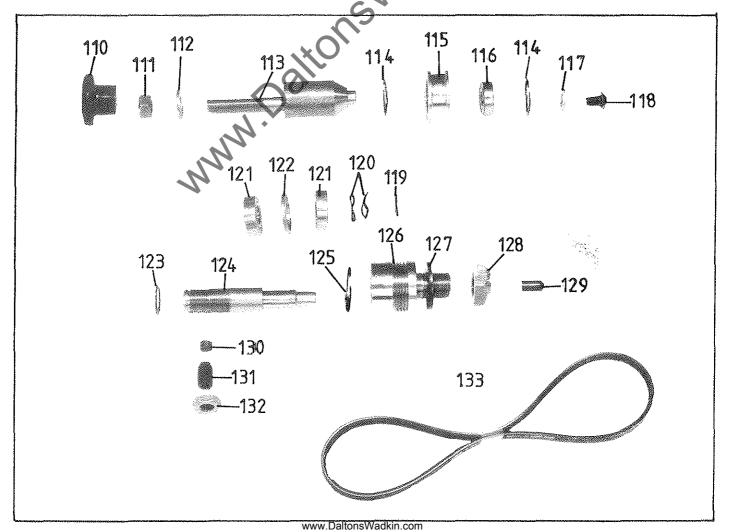


ILLUSTRATED PARTS LIST

ASSE	ASSEMBLY:- MAIN SAW SPINDLE					
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION			
91 92 93 94 95 96 97 98 100	K51-10-304 S25-550 S25-101 K05-25-531 K05-26-114 S25-41 K06-01-192 K05-25-209 S25-394 S25-40 SP12-42 SP12-42	111321211111111111111111111111111111111	5100-225 External Circlip Riving Knife Pivot Bracket Spindle Housing M10 x 30 Long Hexagon Set Screws M6 x 10 Long Socket Set Screws Spindle Locking Collar 6203-2RS Bearings M10 x 25 Long Socket Capscrew Spindle Trapping Collar Spindle Distance Piece Saw Spindle Nut 20mm, 1" and 25mm Bore Front Saw Flange			
102 103 104	S25-98 SP12-57 K51-20-176 SP12-43 K05-25-105]	30mm Bore Front Saw Klange 20mm Spindle Assembly 5 x 9 x 22 Long Woodruff Key Spindle Pulley M16 Nut			

ASSE	ASSEMBLY:- scoring saw					
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION			
111 112 113 114 115 116 117 118 119 121 122 123 124 125 127 129 130 131 132	K51-27-141 K51-27-104 K05-28-105 SP12-151 K51-10-201 SP12-182 K06-01-107 K05-28-103 K51-10-404 K51-88-807 K06-01-149 SP12-23 K51-10-413 SP12-206 K51-10-402 SP12-139 SP12-118 1041-76 K51-61-161 SP12-207 K51-27-111 K51-04-509		M12 Blind Handwheel M12 Nut 12mm Washer Tension Spindle 7000-028 Internal Circlips Scoring Saw Tension Pulley 6001-2RS Bearing 8mm Washer M8 x 12 Long Socket Button Head Screw 7100-015 External Circlip EPL 11 Bump Washers 6002-2RS Bearings Bearing Spacer 7100-018 External Circlip Scoring Saw Spindle 7000-032 Internal Circlip Scoring Saw Pulley Washer Scoring Saw Nut Plastic End Tip Bot for Scorer Spindle Lock M12 x 20 Long Plain Cup Socket Set Screw M12 Locknut 260 J4 Poly 'V' Belt			

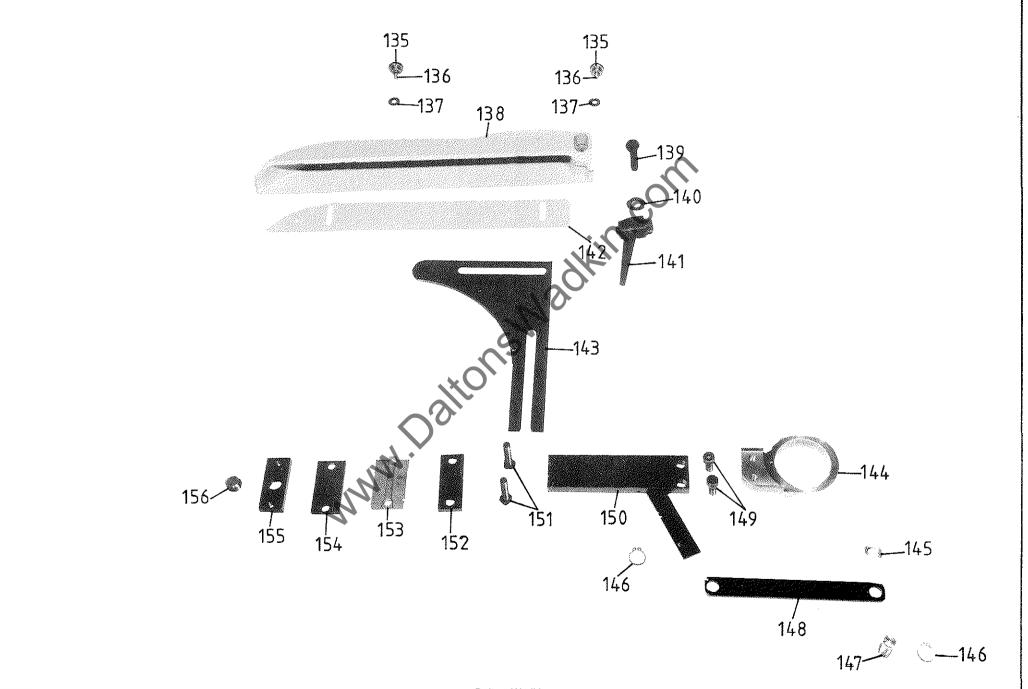






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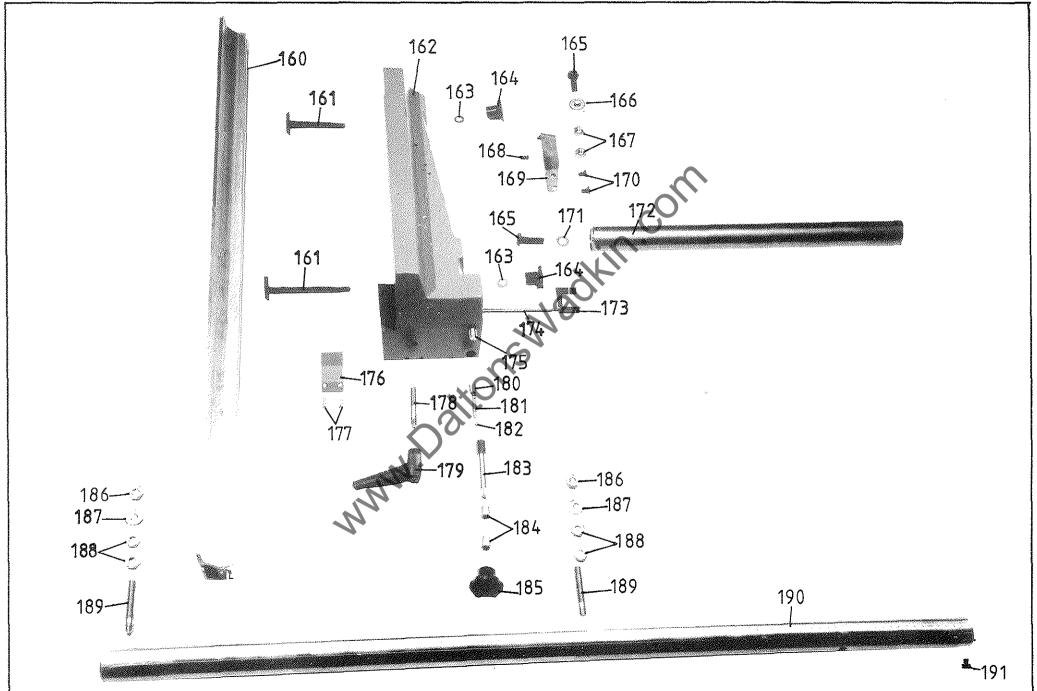
ASSI	ASSEMBLY:- RIVING KNIFE AND SAWGUARD				
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION		
138 139 140 141 142 143 144 145 146 147 148 151 152 153 154 155	SP12-163 K51-19-163 SP12-64 K05-25-533 1069-293 K51-27-191 SP12-162 S25-358 S25-550 S25-376 K51-10-403 S25-552 S25-363 K05-25-187 S25-369 S25-359 S25-368 S25-370 S25-537	2 2 2 1 1 1 1 1 2 1 1 2 1 1 2 1 2 1 2 1	Locking Knobs for Sawguard Visor M6 x 16 Long Studs 6mm Fibre Washers Sawguard M10 x 40 Long Hexagon Set Screw Washer M10 Adjusting Handle Sawguard Visor Riving Knife Riving Knife Pivot Brackat Locknut 7100-012 External Circlip Link Plate Pivot PM Rise and Fall Link Plate M8 x 20 Long Socket Capscrews Slide Plate for Riving Knife M8 x 35 Long Socket Button Head Screws Bear Clamp Plate Riving Knire Guide Plate Pressure Plate Front Slamp Plate Clamb Screw		





ILLUSTRATED PARTS LIST

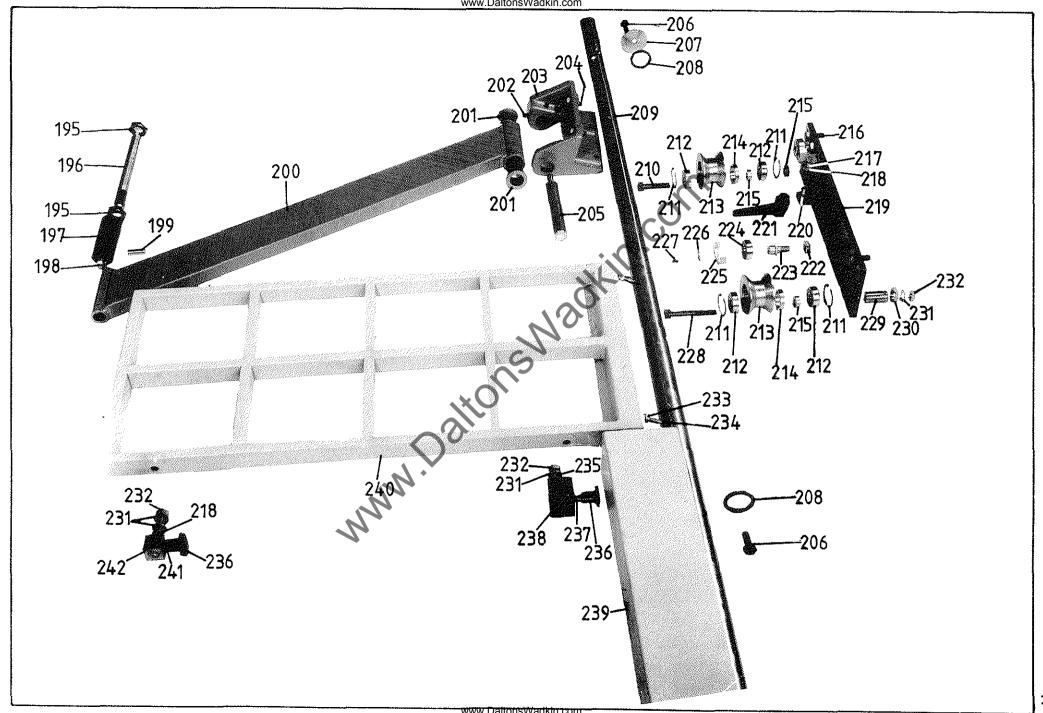
ASSEMBLY:- RIP FENCE						
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION			
161 162 163 164 165 1667 169 171 173 174 177 178 179 181 182 184 188 188 188 189 190	S25-603 S25-532 S25-596 S25-624 K05-28-103 K51-27-127 K05-25-531 K06-30-402 K05-27-103 K05-26-116 S25-605 K05-25-500 K05-28-104 S25-652 S25-60 S25-64 K05-26-269 K51-27-191 S25-635 K51-73-140 K06-30-408 S25-634 K51-05-103 K51-27-137 K05-27-103 K05-27-110 K05-27-110 K05-27-110 K05-25-163	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1	Rip Fence Front Plate Stud for Rip Fence Front Plate 90mm Long Stud for Rip Fence Front Plate 120mm Long Rip Fence 8mm Washers M8 Locking Knobs M10 × 30 Long Hexagon Set Screws 0-4705-00 CGR Roller M10 Nuts M6 × 16 Long Socket Set Surew Rip Fence Roller Spring M6 × 10 Long Hexagon Set Screws 10mm Washer Rip Fence Support for Pointer Bar M10 × 25 Long Brass Machine Screw Locking Plate 5 Dia × 12 7 Long Pop Rivets M10 × 66 Dong Stud M10 Adjusting Handle Pinion Spring Retainer EISIS Compression Spring 5 1/1a Steel Ball Rinion for Rip Fence 9 Bore × 14 0/Dia × 14 Long Oilite Bushes 8mm Plain Handwheel M10 Nuts 10mm Washers M10 Locknuts Studs for Rip Fence Rip Fence Bar M6 × 10 Long Socket			





ILLUSTRATED PARTS LIST

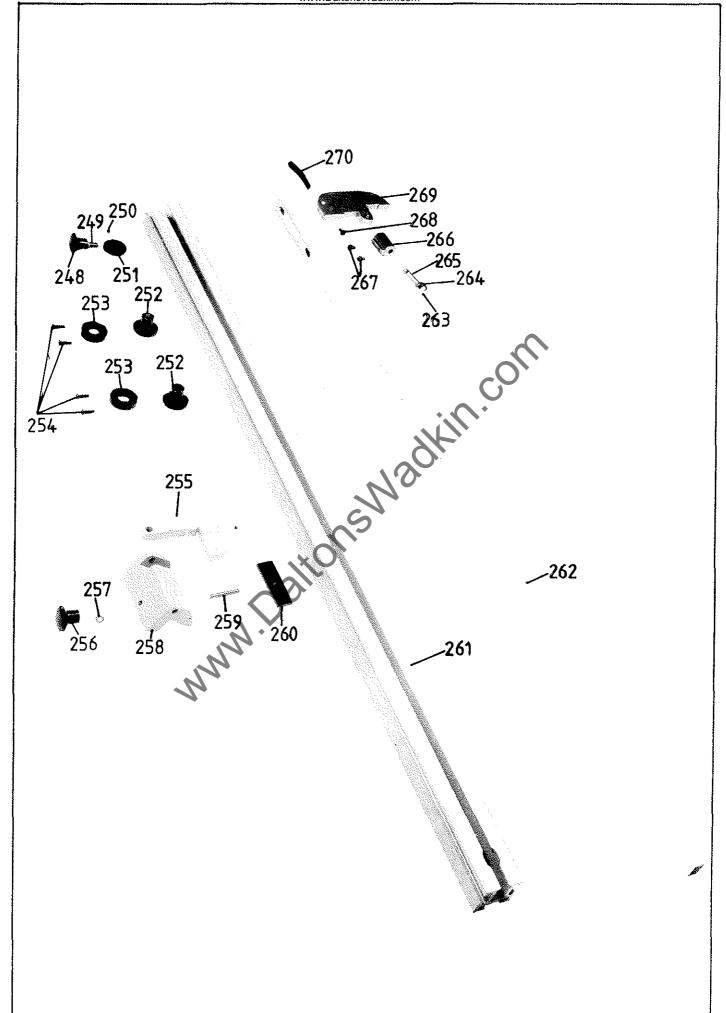
ASSI	EMBLY:- S	LIDING	TABLE
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
196 197 198 199 2001 2002 2005 2007 2006 2007 2008 2007 2010 2010 2010 2010 2010 2010 2010	K05-27-113 S25-644 S25-642 K06-01-172 S25-641 K51-05-155 S25-4 K05-25-531 S25-43 K05-25-528 S25-412 S25-687 S25-47 K05-25-214 K51-10-203 K06-01-314 S25-20 S25-54 S25-54 S25-54 S25-54 S25-54 S25-63 K05-27-110 BEL-109 K51-99-103 K51-27-191 K05-27-111 S25-44 K06-01-185 S25-546 EM-391 K05-27-103	21112414121211442232111122222111432211111111	M20 Locknuts Outer Pivot Stud Outer Support 6200-2RS Bearing 10 x 30 long Hardened Ground Dowel Pivot Arm Flange Oilite Bushes M8 x 20 Long Dog Point Screws Pivot Bracket M10 x 30 Long Hexagon Set Screws Pivot Bar M10 x 16 Long Hexagon Set Screws Slide Bar End Stup Wesher Corded Rubber Rings Slide Bar M10 x 50 Long Goket Capscrew 7000-035 Internal Circlips 6300-2RS Bearings Sliding Table Rollers Bearing Pistance Pieces M10 x 25 Long Hexagon Set Screws M10 x 35 Long Brass Stud M10 Locknut Bearing Plate M10 x 35 Long Brass Stud M10 Locking Handle M12 Locknuts Top Bearing Pins 6202-2RS Bearings Slide Bar Wipers Trapping Washer for Wiper M5 x 8 Long Countersunk Socket Screws M10 x 75 Long Socket Capscrew Adjuster for Front Bearing M20 Locknut 10mm Washers M10 x 35 Long Stud M8 Aerotight Nuts M10 x 35 Long Stud M8 Aerotight Nuts M10 x 35 Long Stud M8 Locking Knobs M8 x 40 Long Stud Inner Fence Support Block Slide Bar Roller Cover Sliding Table Clamping Plate for Table M8 x 30 Long Stud Outer Fence Support Block





ILLUSTRATED PARTS LIST

ASSE	EMBLY:- C	ROSSCUT	FENCE
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
254 255 256 257 258 269 261 262 263 264 266 266 267 268	K51-27-127 K05-26-234 K05-26-112 1073-347 S25-447 S25-535 K05-25-319 SP12-146 K51-27-126 K05-28-102 SP12-148 K05-26-208 BEL-102 S25-420 S25-681 K05-27-110 CP32-210 CP32-214 S25-680		M8 x 30 Long Stud M6 x 6 Long Socket Set Screw Locking Boss Locking Plate M5 x 20 Long Countersunk Socket Screws Turnover Stop M6 x Locking Knob 6mm Washer Turnover Stop Bracket Right Hand M6 x 45 Long Stud Shoe for Turnover Star Crosscut Fence Crosscut Fence Crosscut Fence Locknut M10 Dome Nut M10 Locknut M10 x 75 Long Countersunk Machined Screw Pivot Block M6 x 12 Long Socket Capscrew M6 x 21 Long Countersunk Socket Screw Turnover Stop Turnover Stop Turnover Stop Rest



MAINTENANCE

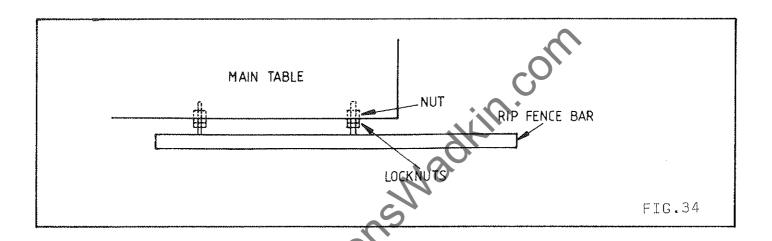
GENERAL

- 1) Regularly clear chips and dust from inside the machine.
- 2) Clean saw spindles from time to time with resin solvent and lightly oil.

All machines leave our factory with all fences etc., precisely set, should any of these settings require adjustments at a later date, proceed as follows:-

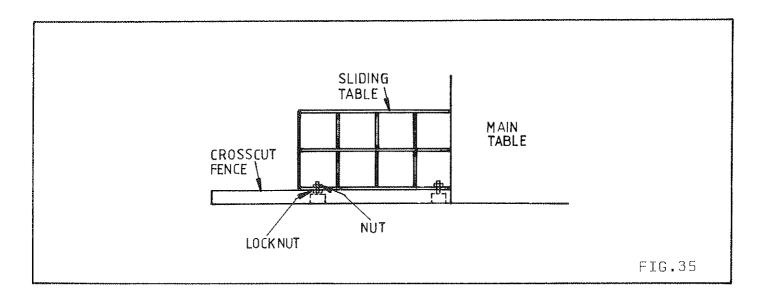
RIP FENCE ALIGNMENT, FIG. 34

Loosen locknuts on the outer of the two bolts holding the rip fence bar, reset locknuts and retighten in new position, retighten nut behind main table



CROSSCUT FENCE SQUARENESS FIG.35

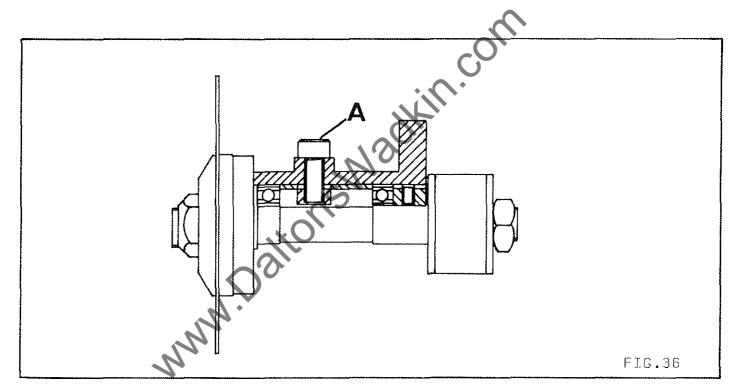
The crosscut fence is held to edge of sliding table by 2 location support blocks. To adjust, if fence is our of square, loosen nut and locknut on the outer of the 2 support blocks, reset and retighten in new position.

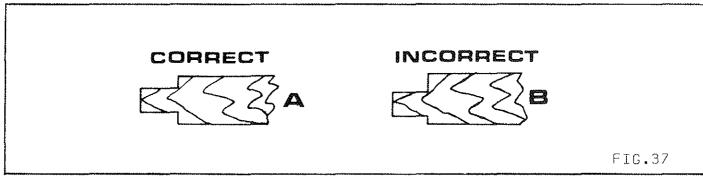


SETTING SAW TO RIVING KNIFE

The saw and riving knife are preset at works and require no adjusting unless spindle bearings have been changed or saw and riving knife are cutting out of line, proceed as follows:-

- Loosen the socket head capscrew 'A' in FIG.35 with 8mm allen key (supplied with machine) and tap spindle (with hide face hammer) as required, taking care not to damage the threads on spindle ends.
 - Place a steel rule along both sides of riving knife to check that saw in central.
- 2) When set, re-tighten the socket head capscrew.
- 3) To check this setting, feed a short piece of timber from the rear, along both sides of the riving knife. If riving knife is set correctly, the blade will cut equal shoulders as shown in FIG.37A and when set incorrectly, unequal shoulders as shown in FIG.37B.

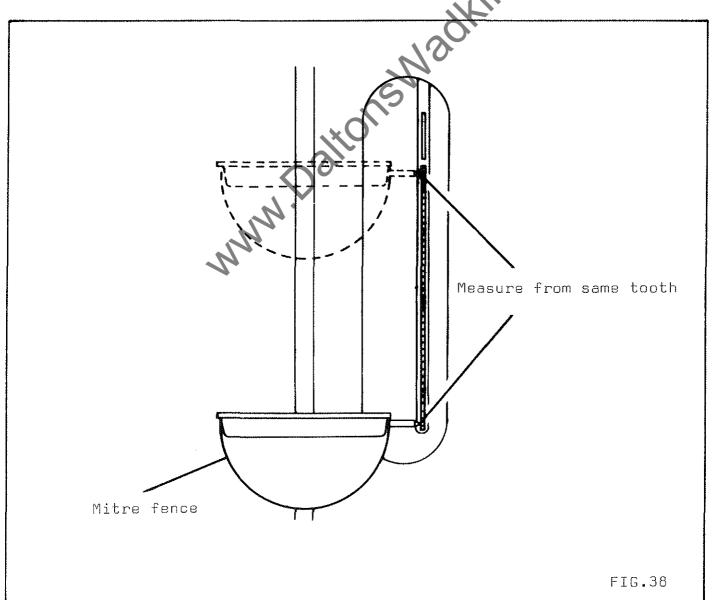




SETTING TABLE IN LINE WITH SAW

The table grooves are accurately set before despatch, but should the table be disturbed in transit or for any other reason, the undermentioned procedure should be followed to set the table grooves parallel to the saw:

- 1) Isolate machine electrically.
- 2) Loosen the four M10 nuts securing the table to main frame.
- 3) With the saw fitted to arbor, select a tooth and position straight stop rod of mitre fence so that it just touches the saw as shown in FIG.38.
- 4) Slide mitre fence to rear position of the saw, swing tooth of saw which was used in item 2. Check whether the stop rod touches the tooth by the same amount. Should the slot be out of alignment with the saw, position table until correct. The correct position of the saw in relation to the table insert slot is 25.4mm (l") from the right hand side. This will ensure clearance on the table insert when the saw is canted. When set, tighten all screws.
- 5) To check this alignment, cut several pieces of wood using the mitre fence to ensure there is no back cut as the stock is passed through the sawblades.



BREAKOUT OF PANELS

- 1) Blunt or incorrect sawblades.
- 2) Scoring saw not in correct alignment to main sawblade refer to page 21 for correct alignment.
- 3) Scoring using rip fence. Scoring should be done using sliding table.
- 4) Riving knife misalignment.

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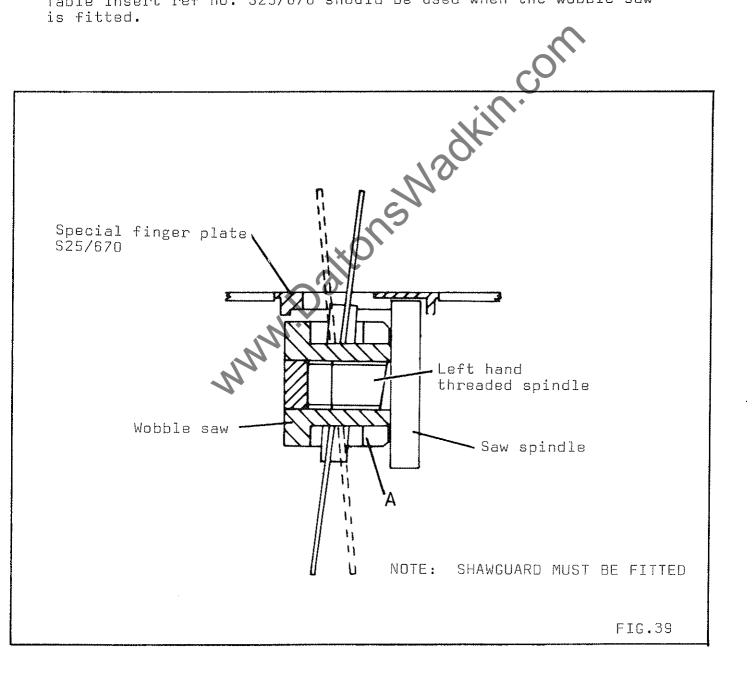
FITTING WOBBLE SAW (EXTRA)

To fit wobble saw, proceed as follows:-

- Isolate machine electrically. 1)
- Remove the table insert, riving knife complete with sawguard 2) and front saw flange. Keep these in a dry, safe place.
- Screw wobble saw to saw spindle as shown in FIG.39. 3)
- All that is now required is to set the saw to give the size of slot which is required to be cut.
- To adjust saw loosen nut 'A' and move saw complete with large 5) collars to required position. When set, relock nut 'A'.

Maximum diameter of saw which can be used is 152mm (6") which will cut any width of groove between 3mm and 16mm (1/8" and 5/8") to a maximum depth of 25.4mm (1").

Table insert ref no. S25/670 should be used when the wobble saw is fitted.



FITTING DADO HEAD (EXTRA)

A dado head is made up of two outside saws and four inner cutters. Various combinations of saws and cutters can be used to cut grooves 3mm to 21mm (1/8" to 13/16") 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.40A.

FIG. 40B shows how the saws and cutters overlap, 'D' being the saw and 'E' being the inside cutter.

A 6mm ($\frac{1}{4}$ ") groove is cut by using the two outside saws fitting the ground teeth directly opposite as shown in FIG.40C in order to allow clearance for the slight set of the saw teeth.

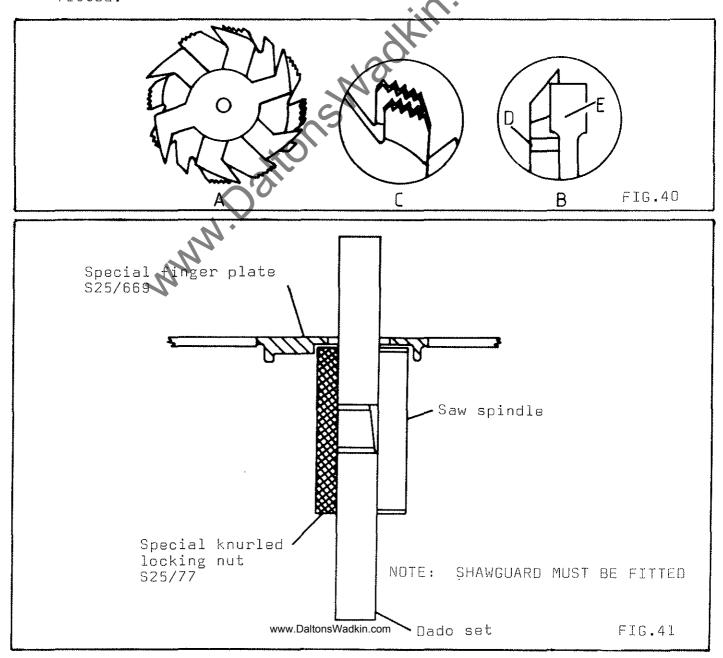
The dado head is secured to the saw spindle by means of a special knurled locking nut as shown in FIG.41.

NOTE: Isolate machine electrically before fitting dado.

To fit dado head, remove the table insert, riving knife complete with sawguard and front saw flange.

Fit the outer saws and required inner cutters on the spindle and lock in position with the special knurled locking nut.

The table insert No. S25/669 should be used when a dado head is fitted.



FITTING MOULDING CUTTERBLOCK (EXTRA)

NOTE: Isolate machine electrically before fitting cutterblock.

The cutterblock is 124mm (4.7/8") dia x 19mm ($\frac{3}{4}$ ") wide and takes 5/32" (4mm) or $\frac{1}{4}$ " (6mm) thick cutters. The cutterblock is secured to the spindle by means of the standard arbor nut without the front saw flange, as shown in FIG.42.

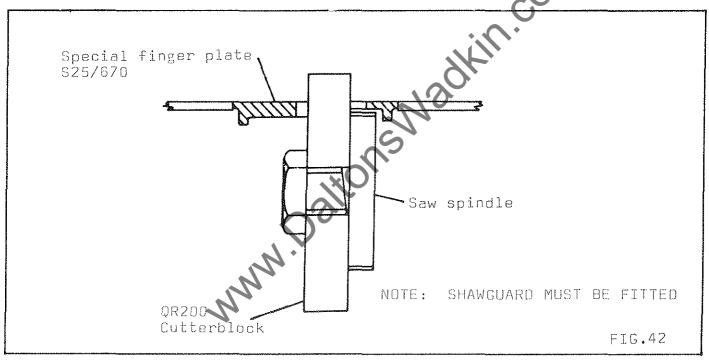
The procedure when fitting the cutterblock is similar to that when fitting the wobble saw and dado set.

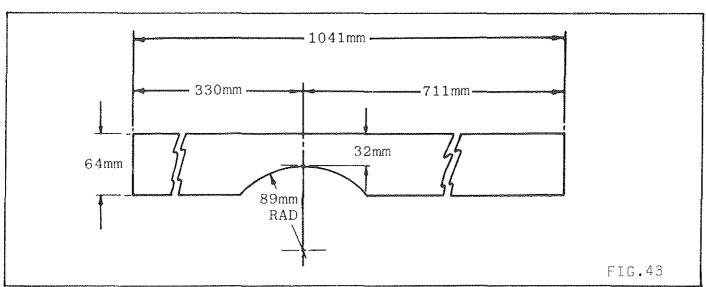
The table insert, ref No. S25/670 should be used when the cutterblock is fitted.

When using the cutterblock, it is necessary to face the fence with a wood facing, to span the cutters so that only the required amount of cutters are exposed when making a moulding. The approximate sizes of such a facing are shown in FIG.43.

The facing is secured to the fence with wood screws through the holes provided.

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





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ILLUSTRATED PARTS LIST

ASSEMBLY:- AMERICAN SAWGUARD							
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION				
275 276 277 278 279 280 281 282 283 284 285 286 287 298 291 293 294 295 297 298 299	SP12-203	2 2 2 1 1 8 8 4 2 1 1	M8 x 30 Long Countersunk Socket Head Screws Spacer for Splitter 8mm Washers M8 Aerotight Nuts				
	SP12-201 SP12-202 SP12-188 SP12-189 SP12-200 S25-460 1069-293		Top Support for Sawguard Angle Piece for Front Flap Front Flap Shouldered Washers for Sawguard M6 x 16 Long Countersunk Socket Head Screws Tie Pieces for Sawguard Sawguards Splitter Washer M10 x 30 Long Stud M10 Full Nut M6 Aerotight Nots 6mm Washer M6 x 40 Long Stud Spring for Splitter Splitter Pivot Splitter Packing Piece M10 x 30 Long Socket Capscrews Splitter Pivot Pushes Kick Back Finger (2 7/8" Long) Kick Back Fingers (3 5/8" Long) Kick Back Fingers (4 3/8" Long) M6 x 25 Long Hexagon Set Screw				
	1026-63 S25-62 S25-267 S25-109 1030-32 1030-225 1030-226	1 1 1 1 2 2 1 2 1 2 1					

