

Axminster Reference No's: AW19FM & AW19FTH

AXMINSTER

Axminster Devon EX13 5PH UK

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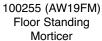
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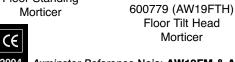




AW19FM & AW19FTH **Morticers**







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Notes...

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Copied from CE Certificate

The undersigned, K. Bodenstein authorised by Laizhou Tongtai Machinery Co.,Ltd. Shilipu Chenggang Road, Laizhou, Shandong 261400 P.R. China declares that this product:

MS3840, MS3840T Morticer manufactured by Laizhou Tongtai Machinery Co. in compliance with the following standards or standardisation documents in accordance with Council Directives

98/37/EC



The symbols shown on the cover of this manual advise that you wear the correct safety protection when using this machine.



























Safety Protection Symbols



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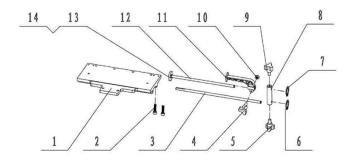




Illustrated Parts Catalogue & Parts Breakdown...

Work Stop Assembly

NO.	Description	Quantity	NO.	Description	Quantity
D-1	Table	1	D-8	Length Setting Block	1
D-2	Cap Screw M6x25	2	D-9	Handle Screw (big)	1
D-3	Rear Length Setting Rod	1	D-10	Nut M6	1
D-4	Handle Screw	1	D-11	Stop Disc	1
D-5	Handle Screw (big)	1	D-12	Front Length Setting Rod	1
D-6	C-Clip	1	D-13	Washer	1
D-7	C-Clip	1	D-14	Stop Disc	





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What's in the Box...



Quantity	Item	Model	WH
Numbers			
1 No.	Axminster AW19FM or AW19FTH Morticer	MS3840, MS3840T	
1 No.	Cabinet Stand with Shelf and Lockable Drawer		
4 No.	M12 x 120 Hex Head Bolts and Washers		
1 No.	5/8" Chisel and Bit		
1 No.	3/4" Chisel Bushing		
1 No.	13/16" Chisel Bushing		
3 No.	Hexagon Keys		
1 No.	Chuck Key		
1 No.	Instruction Leaflet		
1 No.	Guarantee Card		

General Instructions for 230v Machines...

Good Working Practices/Safety



The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



WARNING!!

KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN

Electrical Safety

- · Check that the mains power supply is earthed
- · Regularly check the mains lead and plug for damage
- · Ensure that a fuse of the correct amperage is fitted to the plug
- · Ensure that any extension lead used is correctly rated to suit the machine or power tool
- Ensure that the power lead and any extension lead is kept clear of the blades or other sharp obstacles
- . Do not use electrical machines or power tools in wet or damp areas or locations
- If a replacement mains plug is fitted at any time this must be of the appropriate size and fitted with the correct size of fuse.

General Safety

- Mount the machine on a flat level bench or surface. Secure the machine to the surface where applicable.
- Always use machines or power tools in an uncluttered area. To reduce the risk of accidents, avoid leaving materials or other items within the working area and allow clear access to all machine parts and controls.





General Instructions for 230v Machines...

- Clean machines by wiping with a damp soapy cloth. Do not use solvents or cleaners that may damage plastic parts or painted/coated surfaces. Keep water and solvents away from all electrical components, leads and plus.
- When storing or leaving tools for any length of time, spray bare metal surfaces with Axminster XMP protective spray to minimise surface corrosion.
- Always isolate machines and power tools from the power supply when not in use or when changing parts, cutters and blades or when making any adjustments.
- Before using any machine or power tool, ensure that all locking-nuts, chucks etc, are tightened and secure. Check that all loose keys, spanners and other tools have been removed.
- Always ensure that long hair is tied back or retained by a band, hat or safety helmet. Remove all loose jewellery to prevent it from catching in rotating parts of the machine.
- · Always check that the correct machining or cutting speed has been selected.
- Do not operate machinery or power tools when tired or under the influence of alcohol, drugs or certain medicines.
- WHEN USING MACHINES ALWAYS WEAR SUITABLE EYE PROTECTION, EAR DEFENDERS AND DUST OR FUME INHALATION PROTECTION.
- \bullet Warning!! Keep tools and equipment out of the reach of children, unless they are under supervision.

Specific Safety Instruction for Morticers...

- Ensure that the morticer is firmly fixed to its base as the force exerted through the operating handle could be enough to over-balance the machine.
- Ensure that the operating handle is returned to the upright position after cutting a mortice.
- Mortice chisels have very sharp ends, handle them with great care.
- Make sure that the timber is held firmly down against the table, either with the vice or the hold

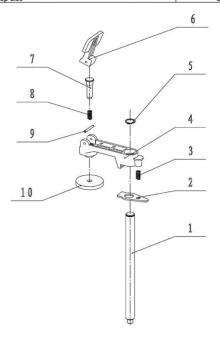
down clamps. This prevents the possibility of the timber being pulled upwards as the mortice chisel is withdrawn from the hole.

Clamping Bar Assembly

Illustrated Parts Catalogue & Parts Breakdown...



Item No.	Description	Quantity
C-1	Shaft	2
C-2	Setting piece	2
C-3	Spring	2
C-4	Clamping body	2
C-5	C-Clip	2
C-6	Locking handle	2
C-7	Locking screw	2
C-8	Spring	2
C-9	Pin	2
C-10	Stop disc	2





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Remove the morticer and stand from the shipping cartons. Report any shortages or damage to Axminster Power Tools Customer Services Department. (0800 371822)

Read the manual thoroughly, familiarising yourself with the correct safety, operating and maintenance procedures before proceeding further.

The machine and stand are both supplied fully assembled so the initial assembly work is limited to positioning the morticer on the stand and securing with four M12 x 120mm long hexagon head bolts.

Fit the adjustable length stop if required using the two screws and washers supplied .

To avoid the possibility of injury it is essential to use the appropriate lifting equipment when positioning the machine on the stand.

When positioning the machine in the workshop, ensure that there is adequate room on either side for the size of timber you plan to use.

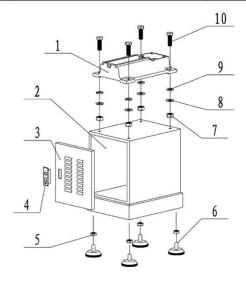
Specifications...

Unpacking and Assembly...

Axminster No's.	100255	600779
Motor	750W, 1PH	, 230V, 50Hz
Rating	Ti	rade
Table Size	400 x 150mm	537 x 191mm
Table Movement		
Longways	170mm	280mm
Crossways	140mm	140mm
Max. Chisel Stroke	220mm	210mm
Chisel Capacity	19mm	19mm
Centre of Chisel to Back Face of Fence (Max)	140mm	140mm
Maximum Timber Height (With typical 1/2" chisel fitted	d) 230mm	230mm
Chisel Mounting Diameters (With supplied bushes)	3/4", ¹³ /16"	3/4", ¹³ /16"
Chuck Capacity	16mm	16mm
Table Tilt	N/A	+20° - 20°
Column Tilt	N/A	+20° - 20°
Overall Size without workstop assembly fitted		
(Length x Width x Height)	560x400x1540mm	560x610x1810mm
Weight with Stand	125kg	140kg

Cabinet Assembly

Item No.	Description	Quantity
B-1	Base	1
B-2	Stand	1
B-3	Door	1
B-4	Door latch	1
B-5	Hex nut, M10	4
B-6	Stand base	4
B-7	Hex nut, M10	4
B-8	Washer, 10	4
B-9	Wave washer 10	4
R-10	Can scrow M12v40	1



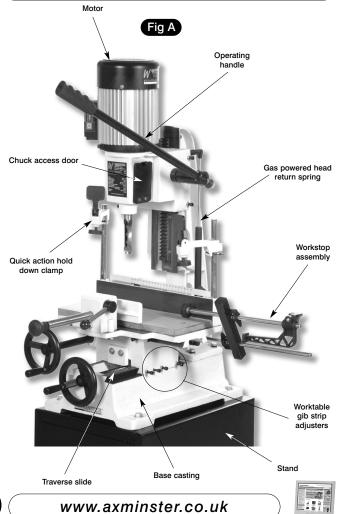
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Illustration and Parts Description...



NO.	Description	Quantity	NO.	Description	Quantity
A-101	Screw, M6x10	3	A-127	Screw, M10x25	3
A-102	Gear	1	A-128	Gear	1
A-103	Drift	1	A-129	Plate-B	1
A-104	Nut, M6	4	A-130	shaft	1
A-105	Screw, M6x15	4	A-131	Screw, M6x15	4
A-106	Pin	1	A-132	Calibration	1
A-107	Gear shaft	1	A-133	Sharp	1
A-108	Collar	1	A-134	Washer	1
A-109	Handwheel	1	A-135	Screw, M5x10	1
A-110	Screw, M8x10	1	A-136	Screw, M8x25	1
A-111	Handwheel	1	A-137	Gear shaft	1
A-112	Gear	1	A-138	Calibration	1
A-113	Collar	1	A-139	Washer	2
A-114	Lead Screw	1	A-140	Cap screw, M8x25	2
A-115	Lead Nut	1	A-141	Handwheel	1
A-116	Sharp	2	A-142	Gear shaft	1
A-117	Screw, M5x10	2	A-143	Set screw	1
A-118	Screw, M8x25	1	A-144		
A-119	Washer	1	A-145		
A-120	Gear	1			
A-121	Gear shaft	1			
A-122	Handwheel	1			
A-123	Gear	1			
A-124	Screw, M10x25	3			
A-125	Plate-A	1			
A-126	Screw, M10x25	2			

Illustrated Parts List for AW19FTH...

(06)

Illustrated Parts List for AW19FTH...

Base Middle base Drift Set screw, M6x35 Hex nut, M6 Washer, 10 Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence Washer, 10	1 1 1 1 4 4 4 4 1 1 1 1 3 3 1 1	A-51 A-52 A-53 A-54 A-55 A-56 A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Handle Motor Handle grip Power cord Strain relief bushing Switch box Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover Gear	1 1 1 1 1 1 1 1 1 4 1 1 1
Drift Set screw, M6x35 Hex nut, M6 Washer, 10 Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	1 4 4 4 4 1 1 1 1 3 3 1	A-53 A-54 A-55 A-56 A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Handle grip Power cord Strain relief bushing Switch box Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	1 1 1 1 1 1 4 1 1
Set screw, M6x35 Hex nut, M6 Washer, 10 Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	4 4 4 1 1 1 3 3 1 1	A-54 A-55 A-56 A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Power cord Strain relief bushing Switch box Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10	1 1 1 1 1 4 1 1
Hex nut, M6 Washer, 10 Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	4 4 4 4 1 1 1 1 3 3 1 1 1	A-55 A-56 A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Strain relief bushing Switch box Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	1 1 1 1 4 1 1
Washer, 10 Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	4 4 4 1 1 1 3 3 1 1	A-56 A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Switch box Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	1 1 1 4 1 1
Wave washer, 10 Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	4 4 1 1 1 3 3 1 1	A-57 A-58 A-59 A-60 A-61 A-62 A-63 A-64	Switch Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	1 1 4 1 1
Cap screw, M10x40 Column Screw Gas spring Set screw, M6x35 Hexa, nut, M6 Drift Screw Rack Screw, M6x10 Fence	1 1 1 3 3 1 1	A-58 A-59 A-60 A-61 A-62 A-63 A-64	Washer Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	1 1 1 1
Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	1 1 3 3 3 1 1 1	A-59 A-60 A-61 A-62 A-63 A-64	Screw, M6x25 Chuck, 16mm Screw, M6x10 Cover	4 1 1 1
Column Screw Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	1 1 3 3 1 1	A-59 A-60 A-61 A-62 A-63 A-64	Chuck, 16mm Screw, M6x10 Cover	1 1
Gas spring Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	1 3 3 1 1	A-61 A-62 A-63 A-64	Chuck, 16mm Screw, M6x10 Cover	1
Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	3 3 1	A-62 A-63 A-64	Cover	1
Set screw, M6x35 Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	3 1 1	A-62 A-63 A-64	Cover	
Hex nut, M6 Drift Screw Rack Screw, M6x10 Fence	1	A-64	Gear	1
Drift Screw Rack Screw, M6x10 Fence	1	A-64		
Screw Rack Screw, M6x10 Fence	1		Shaft	1
Rack Screw, M6x10 Fence		A-65	Connecting bend	1
Screw, M6x10 Fence		A-66	Spring	1
Fence	4	A-67	Screw	1
	1	A-68	Headstock	1
	4	A-69	Screw	1
Wave washer,10	4	A-70	Ruler mark	1
Cap screw, M10x25	4	A-71	Screw	1
Localizer	1	A-72	Setting collar	1
				2
				1
				1
				1
				1
				1
				1
				1
				1
				1
				1
				1
				4
				2
				2
				1
				1
		A-90	Clamping block	1
Screw, M4x12		A-91	Nut, M10	1
Screw, M6x15	1	A-92	Screw, M8x25	1
Screw, M6x15	2	A-93	Locking shaft	1
Washer, 6	2	A-94	Handle	1
Localizer	1	A-95	Wood table	1
Hex nut, M12	1	A-96	Screw, M8x25	2
Washer, 12	1		Table	1
Spring				2
Washer, 14	1		Screw, M10x25	2
	1	A-100	Rack	1
SSFHVSSSSI	Screw, M6x15 Screw, M6x15 Washer, 6 Localizer Hex nut, M12 Washer, 12 Spring	Screw, M6x15 2 Screw, M6x10 2 Pin 1 Hex nut, M10 1 Masher, 10 1 Screw 1 Screw 1 Setting collar 1 Setting collar 1 Setting collar 1 Setting collar 1 Setting rod 1 Setting collar 1 Secrew, M6x15 1 Screw, M6x15 1 Screw, M6x12 1 Screw, M6x15 1 Screw, M6x15 2 Washer, 6 2 Localizer 1 Hex nut, M12 1 Washer, 12 1 Spring 1 Washer, 14	Screw, M6x15 2 A-74 Screw, M6x10 2 A-75 Pin 1 A-76 Hex nut, M10 1 A-77 Masher, 10 1 A-78 Screw 1 A-79 Screw 1 A-80 Setting collar 1 A-81 Setting rod 1 A-82 Setting collar 1 A-83 Hex nut, M10 1 A-84 Washer, 10 1 A-85 Screw 1 A-85 Screw 1 A-85 Screw 1 A-87 Screw, M6x15 1 A-87 Screw, M4x12 1 A-91 Screw, M6x15 1 A-91 Screw, M6x15 2 A-93 Washer, 6 2 A-94 Localizer 1 A-96 Washer, 12 1 A-97 Spring 1 A-98 Washer, 14 </td <td> Screw, M6x15 2</td>	Screw, M6x15 2

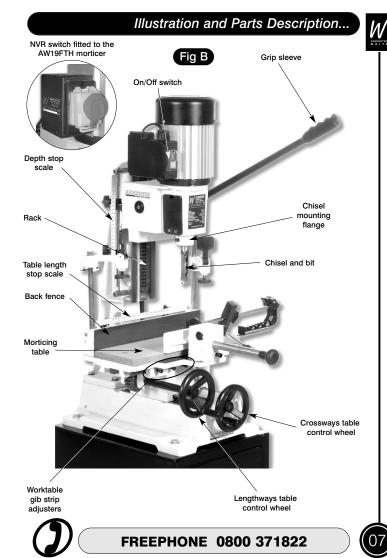
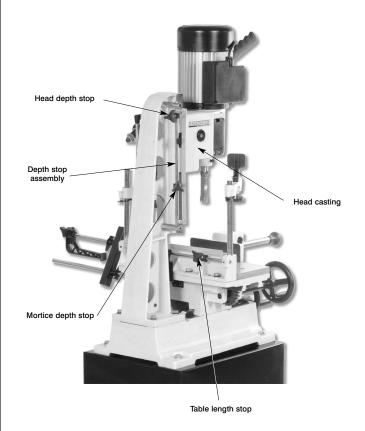


Illustration and Parts Description...

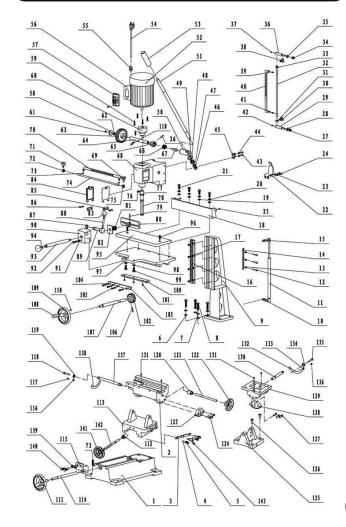
Fig C



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Illustrated Parts Breakdown for AW19FTH...



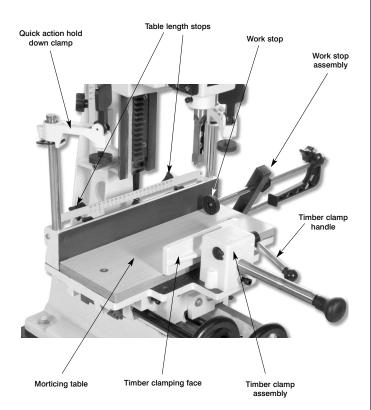
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NO.	Description	Quantity	NO.	Description	Quantity
101	Screw, M6x10	3	112	Screw, M8x10	1
102	Gear	1	113	Collar	1
103	Drift	1	114	Lead Screw	1
104	Nut, M6	4	115	Lead Nut	1
105	Screw, M6x15	4	116	Washer 10	2
106	Pin	1	117	Screw, M10x25	2
107	Gear Shaft	1	118		
108	Collar	1	119		
109	Handwheel	1	120		
110	Screw, M8x10	1	121		
111	Handwheel	1	122		

Illustration and Parts Description...







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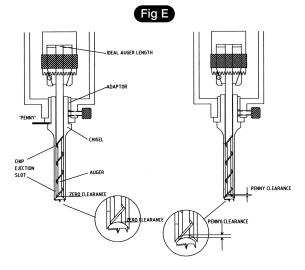


- Select the size of mounting bush to suit the chisel being used and fit into the morticing head.
- 2. Insert the chisel into the bush and tighten the screw just enough to hold the chisel in place. Rotate the chisel so that the slot in the side of the chisel is positioned either to the left or right, not the front or back; this will allow the chips to escape freely when cutting.
- 3. Push the chisel fully into the bush and then retract it by about 1.5 mm, using a spacer such as a coin as shown in Fig E to establish the correct position. Tighten up the locking screw.
- 4. Insert the auger into the chisel and push it fully up so that it contacts the recess in the end of the chisel and then fully secure the shank of the auger in the chuck.

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Be careful when handling morticing chisels as the ends are very sharp.

- 5. Now slacken off the chisel clamping screw, remove the spacer, push the chisel fully home and re-tighten the screw. This procedure will ensure that there is a small clearance between the end of the auger and the chisel, essential in order to avoid waste jamming and overheating the chisel.
- 6. The final operation is to check that the chisel is perfectly square to the table; this is best done by bringing the table forward until the vertical face just touches the back face of the chisel and using this as a datum for aligning the chisel. Ensure that the chisel is securely clamped in position before starting work.

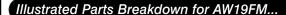


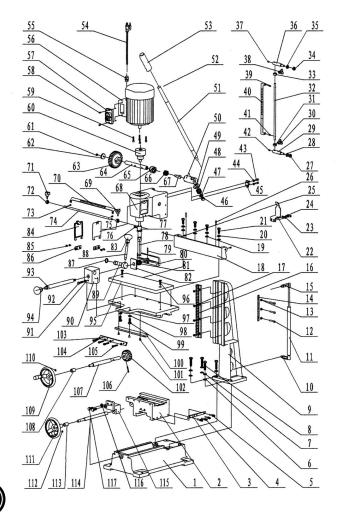
Illustrated Parts List for AW19FM...

	Į	4		

NO. Description Quantity NO. Description	Quantity 1 1 1 1 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1
2 Middle Base	1 1 1 1 1 1 2 4 1 1
3	1 1 1 1 1 2 4 1 1 1
4	1 1 1 1 2 4 1 1
5 Hex Nut, M6 4 55 Strain Relief Bushing 6 Washer, 10 4 56 Switch Box 7 Wave Washer, 10 4 57 Switch 8 Cap Screw, M10x40 4 58 Screw, M4x15 9 Column 1 59 Screw, M6x25 10 Screw 1 60 Chuck, 16mm 11 Gas Spring 1 61 Screw, M6x10 12 Set Screw, M6x35 3 62 Cover 13 Hex Nut, 3 63 Gear 14 Drift 1 64 Shaft 15 Screw 1 65 Connecting Bend 16 Rack 1 66 Spring 17 Screw, M6x10 4 67 Screw 18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10	1 1 1 2 4 1 1
6 Washer, 10 4 56 Switch Box 7 Wave Washer, 10 4 57 Switch 8 Cap Screw, M10x40 4 58 Screw, M4x15 9 Column 1 59 Screw, M6x25 10 Screw 1 60 Chuck, 16mm 11 Gas Spring 1 61 Screw, M6x10 12 Set Screw, M6x35 3 62 Cover 13 Hex Nut, 3 63 Gear 14 Drift 1 64 Shaft 15 Screw 1 66 Connecting Bend 16 Rack 1 66 Spring 17 Screw, M6x10 4 67 Screw 18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10 4 70 Ruler mark 21 Cap Screw, M10x25 4 71 Screw 22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M6x12 24 Screw, M6x10 2 75 Setting Rod 25 Screw, M6x10 2 75 Setting Rod 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortsing Chisel And Bit 29 Screw 1 79 Pin 20 Screw 1 79 Pin 21 Mortsing Chisel And Bit 29 Screw 1 79 Pin 20 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 81 Spring 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw M5x10 1 86 Cover Base	1 1 2 4 1 1
7 Wave Washer, 10 4 57 Switch 8 Cap Screw, M10x40 4 58 Screw, M4x15 9 Column 1 59 Screw, M6x25 10 Screw 1 60 Chuck, 16mm 11 Gas Spring 1 61 Screw, M6x10 12 Set Screw, M6x35 3 62 Cover 13 Hex Nut, 3 63 Gear 14 Drift 1 64 Shaft 15 Screw 1 1 66 Connecting Bend 16 Rack 1 66 Spring 17 Screw, M6x10 4 67 Screw 18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10 4 70 Ruler mark 21 Cap Screw, M10x25 4 71 Screw 22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M4x12 24 Screw, M6x15 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 20 Screw 1 79 Pin 21 Cap Screw 1 79 Pin 22 Setting Rod 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Rod 1 82 Spring Cover 33 Setting Rod 1 82 Spring Cover 34 Setting Rod 1 82 Spring Cover 35 Screw, M5x10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1 2 4 1 1
8 Cap Screw, M10x40 4 58 Screw, M4x15 9 Column 1 59 Screw, M6x25 10 Screw 1 60 Chuck, 16mm 11 Gas Spring 1 61 Screw, M6x10 12 Set Screw, M6x35 3 62 Cover 13 Hex Nut, 3 63 Gear 14 Drift 1 64 Shaft 15 Screw 1 65 Connecting Bend 16 Rack 1 66 Spring 17 Screw, M6x10 4 67 Screw 18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10 4 70 Ruler mark 21 Cap Screw, M6x15 2 73 Screw, M6x12 22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M6x12 24 Screw, M6x10 2 75 Setting Collar 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 20 Screw 1 79 Pin 21 Setting Collar 22 Screw 1 79 Pin 23 Setting Rod 1 82 Spring 30 Screw 1 80 Clamp Plate 31 Setting Rod 1 82 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Rod 1 82 Spring Cover 34 Hex Nut, M10 1 85 Screw, M5x10 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	2 4 1 1
9 Column 1 59 Screw, M6x25 10 Screw 1 60 Chuck, 16mm 11 Gas Spring 1 61 Screw, M6x10 12 Set Screw, M6x35 3 62 Cover 13 Hex Nut, 3 63 Gear 14 Drift 1 64 Shaft 15 Screw 1 65 Connecting Bend 16 Rack 1 66 Spring 17 Screw, M6x10 4 67 Screw 18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10 4 70 Ruler mark 21 Cap Screw, M10x25 4 71 Screw 22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M4x12 24 Screw, M6x10 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortsing Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 81 Spring 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw M5x10 1 86 Cover Base	1 1
10 Screw	1 1
11	1
12	1
13	
14	1
15 Screw 1 65 Connecting Bend	
16	1
17 Screw, M6x10 4 67 Screw	1
18 Fence 1 68 Headstock 19 Washer, 10 4 69 Screw 20 Wave Washer, 10 4 70 Ruler mark 21 Cap Screw, M10x25 4 71 Screw 22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M4x12 24 Screw, M6x15 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Spring 33 Setting Collar 1 81 Spring 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	11
19 Washer, 10 4 69 Screw	1
20 Wave Washer, 10 4 70 Ruler mark	1
Cap Screw, M10x25	1
22 Localizer 1 72 Setting Collar 23 Washer, 6 2 73 Screw, M4x12 24 Screw, M6x15 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
23 Washer, 6 2 73 Screw, M4x12 24 Screw, M6x15 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
24 Screw, M6x15 2 74 Setting Rod 25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
25 Screw, M6x10 2 75 Setting Collar 26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	2
26 Pin 2 76 Screw, M6x25 27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
27 Hex Nut, M10 1 77 Bushing 28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
28 Washer, 10 1 78 Mortising Chisel And Bit 29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
29 Screw 1 79 Pin 30 Screw 1 80 Clamp Plate 31 Setting Collar 1 81 Spring 32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
30 Screw 1 80 Clamp Plate	1
31 Setting Collar 1 81 Spring	1
32 Settling Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
32 Setting Rod 1 82 Spring Cover 33 Setting Collar 1 83 Handle 34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
34 Hex Nut, M10 1 84 Cover 35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
35 Washer, 10 1 85 Screw, M5x10 36 Screw 1 86 Cover Base	1
36 Screw 1 86 Cover Base	4
	2
37 Screw, M6x15 1 87 C—Spring C-20	2
38 Screw 1 88 Handle	1
39 Screw, M4x12 1 89 Shaft	1
40 Depth Ruler 1 90 Clamping Block	1
41 Screw, M4x12 1 91 Nut, M10	1
42 Screw, M6x15 1 92 Screw, M8x25	2
43 Screw, M6x15 2 93 Locking Shaft	1
44 Washer, 6 2 94 Handle	1
45 Localizer 1 95 Wood Table	1
46 Hex Nut, M12 1 96 Screw, M8x25	2
47 Washer, 12 1 97 Table	1
48 Spring 1 98 Washer, 10	2
49 Washer, 14 1 99 Screw, M10x25	
50 Connecting Bend 1 100 Rack	2

(10





Operating Instructions...

- 1. Set the depth of the mortice with the lower of the two depth stops (Fig C) on page 8. The upward travel of the head can be limited by adjusting the upper stop; this prevents unnecessary movement of the operating handle when cutting shallow mortices.
- 2. Place the workpiece on the table and clamp in position with the vice or the hold down clamps. Use the left handwheel to move the table forwards and backwards in order to position the mortice in the required position across the timber.
- 3. Adjust the two table stops shown in Fig D on page 9 to give the required length of
- 4. Turn the machine on and feed the chisel and bit steadily into the work by pulling down on the operating handle. The handle can be re-positioned on its spindle so that it is in the most convenient position.
- 5. After making the first cut, the table is moved along with the left hand wheel for successive cuts until the mortice is complete. The direction of movement of the table will depend on which side of the chisel the clearance slot is located - movement should be away from the slot so that the chippings can clear freely.
- 6. The rate of feed of the chisel should be fast enough to prevent burning of the tip of the chisel but not so fast as to risk breaking the auger. The ideal speed for any combination of chisel size and timber type will be learned through experience.
- 7. Deep mortices are best cut in a series of shallower cuts to allow the chippings to clear and prevent blocking of the chisel.



This section refers only to the AW19FTH Morticer

Table & Column Tilt Control

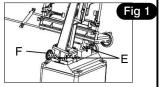


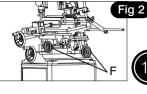
WARNING! NOT angle the Column and Table beyond 21° degrees.

Setting the Table Angle

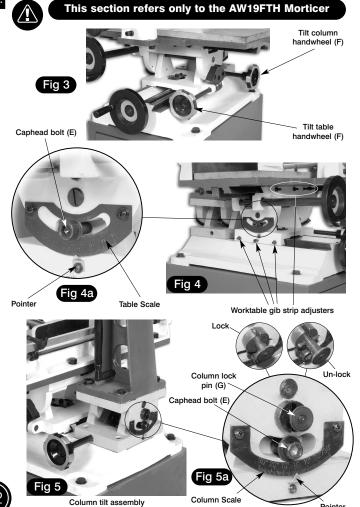
Loosen the caphead bolt (E) below the left sized of the table using a 8mm alan key (See figs 1,4,4a). Turn the handwheel (F) clockwise or anti-clockwise to set the angle on the scale. (See fig 3) When the required angle is reached, re-tighten the caphead bolt (E).

Setting the Column Angle
On the tilt column assembly loosen the caphead bolt with a 8mm alan key (E) (See figs 1, 5a), pull and turn the column lock pin (G) towards you to un-lock the column & to prevent the pin from spring back into the recess. (See fig 5a) Turn the column handwheel (F) (clockwise or anti-clockwise), to set the angle on the scale. (See figs 2,3) Once the required angle is reached, turn and push the column lock pin (G) back into the recess then re-tighten the caphead bolt (E) on the column.









Maintenance...

The morticer requires only minor maintenance such as routine cleaning and lubrication. Keep the machine clean and use a light application of thin oil to the moving parts.

Chisels and bits should be kept sharp for best performance, a discoloured tip is usually a sign of excessive heat caused by a blunt auger and/or chisel. Bits are best sharpened with a small file and chisels with the special mortice chisel sharpeners available through Axminster Power Tool Centre (Tel 0800 371822).

Burrs can be removed from the sides of the chisel on a fine oilstone or waterstone but great care must be taken not to taper the chisel as this will cause the chisel to jam in the timber.

