

Woodworking machinery at its best!

SPINDLE MOULDER OWNERS MANUAL MODEL: W050



* Shown with optional square table and telescopic support

CE

Charnwood Machinery Ltd, Cedar Court, Walker Road, Bardon Hill, Leicestershire, LE67 1TU Tel. 01530 516 926 Fax. 01530 516 929 email: sales@charnwood.net website: <u>www.charnwood.net</u>

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Declaration of Conformity

Copied from CE Certificate

The undersigned G. Reimann, authorised by

Laizhou Planet Machinery Co., Ltd. Yutai West Street Laizhou, Shandong 261400 P.R. China

Model number MX5110A

manufactured by Laizhou Planet Machinery Co. is in compliance with the following standards or standardisation documents in accordance with Council Directives

2006/42/EC 2006/95/EC



Varning The symbols below advise that you follow the correct safety procedures when using this machine.



Fully read manual and safety instructions before use



Ear protection should be worn



Eye protection should be worn



Dust mask should be worn



HAZARD Motor gets hot

What's Included

Quantity	ltem		Model Number
1 off	Spindle Moulder	A	MX5110A
Support	Fable Assembly	с	
1 off	Support Table	C1	
2 off	Lift & Shift Handles with Washers (M8 Thread)	C2	
1 off	Pre-drilled Steel Plate	C3	
Spindle Gua	and Assembly	D	
1 off	Spindle Guard with Adjustable Fence	D1	
2 off	Lift & Shift Handles with washers M8 x 140mm	D2	
1 off	Guide Assembly Mounting Bracket	D3	
Guide Asser	nbly	E	
1 off	Guide Arm	E1	
1 off	M8 Clamping Knob	E2	
1 off	Lift & Shift Handles with Washers (M8 Thread)	E3	
1 off	Guide Roller Assembly	E4	
1 off	Anti-Kickback Assembly	E5	
Mitre Fence	Work Clamp Assembly F		
1 off	Mitre Fence Casting with Fence	F1	
1 off	Work Clamp	F2	
1 off	Pre-drilled Metal Plate with Pointer	F3	
1 off	M10 Clamping Knob with Washer	F4	
1 off	Lift & Shift Handle with Washer (M10 Thread)	F5	
1 off	10mm Allen Key & 4mm Double Ended Allen Key		
1 off	Instruction Manual		

Optional Accessories

Tenon Plate (Order No: 950506)				
Sliding Tab	le Extension Assembly (Order No:950505)	В		
1 off	Extension Table	B1		
1 off	Extension Table Fence (Adjustable)	B2		
2 off	Lift & Shift Handles with Washers (M6 Thread)	B3		
1 off	Pre-drilled Steel/Pin Plate	B4		
2 off	M6 x 11mm Caphead screws & washers	B5		
1 off	Pivot Arm with four bolts & washers	B6		
1 off	Extension Table Support Rod	B7		









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!

Mains Powered Tools

Primary Precautions

This machine is supplied with a moulded 16 Amp. Plug and 3 core power cable. Before using the tool inspect the cable and the plug to make sure that neither are damaged. If any damage is visible have the tool inspected/repaired by a suitably qualified person. If it is necessary to replace the plug, it is preferable to use an 'unbreakable' type that will resist damage on site. Only use a 16 Amp plug, and make sure the cable clamp is tightened securely. Fuse as required. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine.

Work Place/Environment

The machine is not designed for sub-aqua operation, do not use when or where it is liable to get wet. Do not use 230V powered tools anywhere within a site area that is flooded and do not trail extension cables across wet areas.

Keep the machine clean; it will enable you to more easily see any damage that may have occurred. Do not use any solvents or cleaners, as these may cause damage to any plastic parts or to the electrical components.

\triangle

KEEP THE WORK AREA AS UNCLUTTERED AS IS PRACTICAL. UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

It is good practice to leave the machine unplugged until work is about to commence, also make sure to unplug the machine when it is not in use, or unattended. Always disconnect by pulling on the plug body and not the cable. Once you are ready to commence work, remove any tools used in the setting operations (if any) and place safely out of the way. Re-connect the machine.

Carry out a final check e.g. check the cutting tool is securely tightened in the machine, check you have the correct speed and function set, check that the power cable will not 'snag' etc. Make sure you are comfortable before you start work, balanced, not reaching etc.

If the work you are carrying out is liable to generate dust or chips, wear the appropriate safety clothing, goggles, gloves, masks etc. If the work operation appears to be excessively noisy, wear ear-defenders. If you wear your hair in a long style, wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the machine, likewise, consideration should be given to the removal of rings and wristwatches, if these are liable to be a 'snag' hazard. Consideration should also be given to non-slip footwear, etc. If you are allowing another person to use the machine, ensure that they are suitably qualified to use it. Check that cutters are the correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the



DO NOT WORK WITH CUTTING OR BORING MACHINE OF ANY DESCRIPTION IF YOU ARE TIRED, YOUR ATTENTION IS WANDERING OR YOU ARE BEING SUBJECTED TO DISTRACTION.



DO NOT USE THIS MACHINE WITHIN THE DESIGNATED SAFETY AREAS OF FLAMMABLE LIQUID STORES OR IN AREAS WHERE THERE MAY BE VOLATILE GASES.

machine. Above all, **OBSERVE....** make sure you know what is happening around you, and **USE YOUR COMMON SENSE.**

Specific Safety Precautions

Authorised Use The machine must only be used in a technically perfect condition. This machine is designed for shaping wood and wood derived materials. When working on the machine, all safety mechanisms and covers must be in operation. Machining of other materials is not permitted and may In addition to the safety requirements contained in be carried out in specific cases only after consulting these operating instructions and your country's with the manufacturer. applicable regulations, you should observe the generally recognized technical rules concerning the The proper use also includes compliance with the operation of woodworking machines. operating and maintenance instructions given in this manual. Any other use exceeds authorisation. The machine must be operated only by persons In the event of unauthorised use of the machine, the familiar with its operation and maintenance and who are familiar with its hazards. manufacturer renounces all liability and the responsibility is transferred exclusively to the operator. The required minimum age must be observed.

General Safety Notes

Woodworking machines can be dangerous if not used properly. Therefore the appropriate general technical rules as well as the following notes must be observed.

Read and understand the entire instruction manual before attempting assembly or operation.

Keep these operating instructions close by the machine, protected from dirt and humidity, and pass them over to the new owner if you part with the tool.

No changes to the machine may be made.

Daily inspect the function and existence of the safety appliances before you start the machine.

Remove all loose clothing and enclose long hair.

Before operating the machine, remove tie, rings, watches, other jewellery, and roll up sleeves above elbows.

Wear safety shoes; never wear leisure shoes or sandals.

Always wear the approved working outfit.

Do not wear gloves while operating the machine.

For the safe handling of cutting tools wear work gloves.

Control the stopping time of the machine, it may not exceed 10 seconds.

Remove cut and jammed workpieces only when the machine is at a complete standstill and motor is turned off.

Install the machine so that there is sufficient space for safe operation and workpiece handling.

Keep work area well lit.

Specifications

Model	WS1000TA
Product Code	501209
Rating	Trade
Power	2.8kW (230V, 1ph)
Spindle Travel	100mm
Spindle Diameter	30mm
Max Spindle Projection above Table	100mm
Max Tooling Diameter Above Table	200mm
Max Tooling Diameter Below Table	180mm
Table Height	900mm
Table Size	1,000 x 360mm
Min Extraction Airflow Required	1,000m³/hr
Dust Extraction Outlet	100mm x 2
Overall L x W x H	1,010 x 690 x 900mm
Weight	218kg



PLEASE NOTE. Some of this assembly procedure is best accomplished by two persons. Although the tasks are not impossible, some of the items are heavy and awkward, and a mishandling error could cause injury. Please think about what you are doing, your capabilities and your personal safety.

Unpack all the boxes and check all the components against the "What's in the Boxes' List. If any parts or components are missing, please contact our customer services department using the procedures and telephone numbers listed in our catalogue, and you will be dealt with quickly and efficiently.

Having unpacked the boxes, (please dispose of any unwanted packaging responsibly), put the parts and components whereby they are readily to hand. Break down the main box by knocking the sides away (be careful of exposed nails etc.), but leave the machine sitting on its pallet. Remove the protective grease film that is coating all the unpainted parts of the machine. Use a proprietary de-greasing agent or paraffin et al. Unfortunately, this cleaning process is always a bit 'mucky' especially if you tackle the job with a high level of enthusiasm. You are advised to wear overalls or coveralls etc., during the process. After cleaning, especially if you used paraffin, lightly coat the exposed metal surfaces to prevent any rusting.

Note: The WS1000TA spindle moulder comes 95% assembled, in order to reduce the footprint of the machine for packaging, several items are dismounted from the machine and need to be re-affixed.

Step 1

Support Table Assembly

Locate the support table (C1), the two lift and shift handles with M8 washer (C2) & the pre-drilled steel plate (C3). Line up the pre-drilled holes in the steel plate (C3) with holes in the bench casting (C1) and screw the two lift and shift handles (C2) through. Note: leave at least a 3mm gap between the plate (C3) & the support table (C1) for the next stage (See figs 1 & 2).



Screw the two lift and shift handles **C2** through the both **C1** & **C3**



Keep at lest a 3mm gap between the steel plate C3 and support table C1

Line up the edge of the steel plate **(C3)** with the 'T' slot machined into the sliding table **A** see fig 3. Slide the support table assembly **(C)** onto the sliding table & position it to the far side. Tighten the two lift and shift handles **(C2)** to clamp the assembly in position (See fig 4).



Slide the table assembly **C1** onto the sliding table **A**



Clamp the table in position by tightening the two lift and shift handles **C2**

Step 2

Sliding Table Extention Assembly (Optional Accessory Order No: 950505)

Locate the pivot arm **(B6)** with the four bolts & washers, line the holes in the mounting bracket with pre-drilled holes to the side of the spindle moulder **(A)** & secure using the bolts and washers (See figs 5-6). Locate the extention table support rod **(B7)**, slide the support rod **(B7)** through the pre-drilled hole in the pivot arm **(B6)** and secure using the nuts & washers (See figs 7-8).



Line up pivot arm bracket to the side of the machine

Locate the extention table (**B1**), extention table fence (**B2**), lift and shift handles with M6 washers (**B3**) & the pre-drilled steel pin plate (**B4**).

Slide the steel pin plate into the machined 'T' slot to the left hand side of the sliding table (See fig 9).

Pull out the extention table support arm (**B6**) see figs 10 and 11, offer up the machined slots in the table (**B1**) with the pins (**B4**), see figs 12 and 13, locate the two lift and shift handles (**B3**) and screw them through the pre-drilled holes in the table (**B1**) into the pre-drilled steel pin plate (**B4**), see fig 14. Tighten the lift and shift handles (**B3**).



Using a spanner, tighten the five bolts



















Locate the two M6 x 11mm caphead screws (**B5**), line up the extention table support rod (**B7**) bracket with the pre-drilled holes in the extention table (B1), using the two M6 caphead screws and a 5mm allen key secure the support rod (**B7**) to the table (**B1**) (See fig 15). On top of the extention table there are two adjustment grub screws, using a straight edge adjust the screws using a 4mm allen key until both sliding and extention tables are level (See fig 16). (Note: Turn clockwise to raise the extention table, counterclockwise to lower it).



Lift up the left 90° degree stop, see fig 19, locate the extention table fence assembly (**B2**), lower the fence assembly onto the table casting (**B1**) making sure the pin beneath the fence inserts into the pre-drilled hole on top of the table casting (**B1**), see figs 20 and 21. Push the fence up-against the 90° stop, position the angle bracket (**a**) up-against the table casting **B1** and turning butterfly knob clamps the fence (**B2**) to the table casting (**B1**) (See fig 22). Lastly tighten the lift and shift handle (**b**) to prevent the pin from moving (See figs 22).

Note: The fence (B2) can be mounted to the opposite side of the table casting (B1) in the same way as described above.





Spindle Guard Assembly

Locate the spindle guard (D1) and the two M8 x 140mm lift & shift handles with washers (D2). Raise the spindle to the maximum height by unlocking the spindle moulder rise/fall locking handle (a) and turning the spindle moulder rise/fall wheel clockwise (b) then lock in place (See figs 23-24).

Remove the circular rings from the work table and place aside, see fig 25, Lower the spindle guard (D1) onto the work surface & line up the machined slots in the guard casting (D1) with the two pre-drilled holes on either side of the spindle (See figs 24-26). Put to hand the lift & shift handles (D2), slide each one through the machined slot in the guard casting (D1) and screw them into the pre-drilled holes on the spindle table, locking the guard (D1) in position (See figs 27-28).







Locate the guide assembly mounting bracket (D3), using a 6mm allen key remove the four caphead bolts & washers on top of the spindle guard (D1), place safely aside (See fig 29). Lower the guide assembly mounting bracket (D3) on top of the spindle guard & line up the four pre-drilled holes, replace the caphead bolts & washers you removed earlier and tighten (See fig 30) (DO NOT OVERTIGHTEN).





Guide Assembly

Locate the guide arm (E1) and slide it through the mounting bracket (D3), with two thirds extending out for the front of the guard, clamp in place using the M8 clamping knob (E2) and lift and shift handle (E3) (See figs 31-32). Locate the feeder roller assembly (E4) and slide it onto the guide arm (E1), clamp in place using the clamping knob (See fig 33). Locate the anti-kickback assembly (E5) and repeat as before (See fig 34). (NOTE: Make sure metal wave plate is facing inwards)



Slide the guide arm **(E1)** through the mounting bracket **(D3)**



Slide on the guide roller assembly **(E4)** and clamp in position



Clamp the guide arm with the clamping knob **(E2)** and lift and shift handle **(E3)**



Slide the anti-kickback assembly **(E5)** and clamp in position



Mitre Fence Work Clamp Assembly

Locate the pre-drilled metal plate **(F3)** & slot it into the machined 'T' slot in the sliding table (See figs 35-36). Lower the mitre fence casting **(F1)** on top of the metal plate **(F3)**, line up the machined slot & pre-drilled hole in the mitre fence casting with the holes in the metal plate, see fig 37, locate the M10 clamping knob **(F4)** with washer & screw it through the hole in the casting into the metal plate **(F3)** (See fig 38). Locate the lift and shift handle **(F5)** and screw it through the machined slot into the remaining pre-drilled hole and lightly tighten (See fig 39). Lastly locate the work clamp **(F2)** and slide it onto the steel rod, clamp in place by tightening the clamping knob (See fig 40). **(DO NOT OVERTIGHTEN)**

















A Spindle Moulder	D Spindle Guard Assembly
B Sliding Table Extention Assembly Optional	E Guide Assembly
Accessory (Order No: 950505)	F Mitre Fence Work Clamp Assembly
C Sliding Bench Assembly	





Spindle speed indicator

Spindle height scale



Spindle moulder control panel



Reversing selector switch



NVR ON/OFF switch



Emergency stop shroud, slap the shroud down to stop the machine.

NOTE: The machine is equipped with a FORWARD/REVERSE switch as shown in figure 43. You will find many instances that it is necessary to flip the cutter over and reverse the cutter rotation.



CAUTION: BEFORE TURNING THE SELECTOR SWITCH, MAKE SURE THE MACHINE IS AT A COMPLETE STOP!

NOTE: Turning the reversing selector switch to the (L) position the motor will run in a forward motion & the spindle will turn counter-clockwise. Turning the selector switch to the (R) position the motor will run reverse & the spindle will turn clockwise (See fig 43).



Sliding table locking knob, locked in the out position



Pull the locking knob & twist



The extension table fence set to 45°

Magnifying glass

Distance stop assembly



Spindle moulder table height adjusting nuts (a)



Extension table 90° stop



Extension table angle scale

Butterfly clamping knob



Telescopic extension assembly



Sliding table height adjusting nuts (b)



Spindle tilt operating handle, located to the front of the machine

Setting the fence

The fence is a two piece adjusting system. Each fence is independently adjustable to compensate for different cutting thicknesses.

Make sure the fence is square to the work surface, place a 90° square up against the fence and check it is perpendicular to the work surface. If it is not, turn the fence adjusting knob (a) until it is correct (See figs 55 and 56).

Place a straight edge up-against the fence, loosen the fence advancing clamping knobs & turn the fence advancing knobs (**b**) until both fences are aligned (See figs 57 & 58).



Place a 90° square up against the fence and check it is perpendicular



Adjust the advancing knobs (b) until both fences are aligned



Place a straight edge up-against the fences and check they are aligned

Adjust the position of the fence assembly to give both the required cutter protrusion and adequate clearance between the cutter and the fence. Close up the aluminum fences to give approximately 5mm clearance around the cutter (see fig 59).

The fence is used to guide small workpieces through the cutter without them being trapped between the fence and the cutter. The dust extraction hose is connected to the aperture at the rear of the fence casting.

Before starting work, carefully check that the cutter can rotate freely without fouling the inside of the guard and that the guard is clamped firmly in place.



Adjusting the feeder roller & ant-kickback assembly

Loosen the feeder roller clamping knobs (**a** and **b**) & move the feeder roller to the centre of the workpiece, tighten the clamping knobs. Undo the anti-kickback clamping knobs (**c** and **d**) and move the assembly near the workpiece, tighten the clamping knob (**c**), raise the assembly so the steel plate is about 5-10mm above the work table (See figs 60 & 61).



Leveling the sliding table

Place a level between the sliding table & work table & check that both tables are level. If not loosen the three nuts (e) beneath the sliding table and adjust the two coach bolts (f), until the bubble on the level is between the two markers (g), tighten the three nuts (e) (See figs 62 & 63).





DISCONNECT THE MACHINE FROM THE MAINS SUPPLY!

Raise the spindle to the maximum height by unlocking the spindle moulder rise/fall locking handle and turning the spindle moulder rise/fall handle clockwise then lock in place. Using a 19mm spanner remove the bolt & clamping block (**D**), spacing collar/s (**E**) and clamping washer (**F**) and place them safely aside, remove the cutter block. Check the new cutter block for damage,sharpness etc. Fit the new cutter block on the arbor as low as possible, see fig 1and 2. Watch the direction of rotation (counter-clockwise) when mounting the cutter. replace the clamping washer (**F**), spacing collar/s (**E**), clamping block (**D**) and bolt. Tighten the clamping block securely (See figs 64,65,66 & 67).



Turn the cutter block once by hand to check it doesn't foul anywhere. Reconnect the machine to the mains supply. Give the machine a 'quick' burst check (**i.e. quick ON-OFF**) to ensure everything is O.K. If everything is satisfactory, continue to use the machine. Check the old cutter block for damage, sharpness, resin buildup, etc., clean if necessary and send for refurbishment/resharpening if required. If the cutter block is not to be re-sharpened, clean and pack away in its stowage case.





DISCONNECT THE MACHINE FROM THE MAINS SUPPLY!

Open the motor access door to the front of the machine, by removing the two caphead screws, see figs 68 & 69, lower the spindle to it's lowest point, if not done so already. Locate the 10mm allen key (G), loosen the caphead bolt (H) on top of the motor, pull the motor tension lever (I) out, to allow the belt to go slack & reposition the belt on the pulleys as required. When you are happy push back the tension lever (I) and tighten the caphead bolt (H) to keep the tension (See figs 70,71 & 72).









Close the access door, raise the spindle, reconnect the machine to the mains supply. Give the machine a 'quick' burst check (i.e. quick ON-OFF) to ensure everything is O.K. If everything is satisfactory, continue to use the machine.

Speed Chart

Positioning the Machine

Note: Ascertain the orientation of the machine and move it to its desired position in the workshop. Ensure that the machine is positioned to allow sufficient clearance both in front, behind and to the sides of the machine to cater for the maximum length of timber you will wish to machine. The machine should be positioned on a flat level surface. Once the machine is in position, and level, it can be bolted to the floor if so required.



Using a Sanding Drum

DISCONNECT THE MACHINE FROM THE MAINS SUPPLY!

The spindle moulder can be used as a sander by attaching a sanding drum to the spindle, please follow the instruction below.

Warning: When using the sanding drum, the spindle speed should not exceed 1800 rpm.

•Raise the spindle to the maximum height by unlocking the spindle moulder rise/fall locking handle and turning the spindle moulder rise/fall handle clockwise then lock in place.

•Remove the spindle guard & guide assembly, place safely aside.

•Remove the cutter block as described on page 23, insert the sanding drum (a) into the sanding sleeve (b).

• Place a spacing collar (c) & the sanding drum assembly onto the spindle, place a further spacing collar (c) on top sanding drum assembly. Secure using the clamping block (d) & bolt (e), tighten with a 19mm spanner (DO NOT OVERTIGHTEN) (See fig 73).

Sanding drum assembly



Operating Instructions

Workpiece Handling

•Feed the workpiece straight across the machine table, holding the fingers close together and guiding the workpiece with the palms of your hands.

•Never put your hands under or behind the cutter guard.

•Always keep your hands well clear of the rotating cutter.

•Always feed the workpiece against the cutter rotation as shown by the arrow in illustration.

•Use a push stick when working the ends of narrow stock.

•Use a feeding aid if you are going to machine a workpiece shorter than 300mm.

•Always machine the workpiece over its entire length.

Recess machining may only be carried out with the aid of suitable longitudinal verkpiece stops.

•When working complex shapes, make jigs and guides to guide the workpiece properly and safely.

•Make trial cuts on a piece of scrap before working the actual workpiece.

•Support long workpieces with roller stands or table extensions.

•Always work one workpiece at a time.



The spindle moulder can be fitted with the following optional accessories:

• Sliding Table Extension Order No: 950505 See fig 74)

This accessory is a support table complete with a telescopic support arm. It clamps to the sliding table to provide extra support when machining panels or the ends of long boards. Supplied with a long fence arm and length stop. The telescopic arm requires mounting to the machines chassis using the mounting hole provided. Some care should be taken when mounting the arm to ensure that the table stays level throughout its travel.

• Tenon Plate Order No: 950506 (See fig 75)

This accessory is a simple alloy plate that lifts the work piece above the table. This means that you can machine the top and bottom surface of the work, such as when creating a tenon. It can be mounted next to the mitre fence and clamp so as to make the machining of end grain material as safe as possible.

•Co-Matic AF32 Junior Power Feed Order No: 340195 (See figs 76 & 77)

A medium weight power feed unit with three white rubber rollers, all spring-loaded to provide a constant feed rate on either a planer, saw bench or spindle moulder. There is a choice of four feed speeds, easily selectable by removing the side plate and re-positioning the drive gears. The horizontal and vertical position of the drive head can be precisely adjusted with the aid of the two adjusting screws and then securely locked in place with the two handles.

An additional feature is the ability to rotate the head through 90° so that pressure can be applied to the work in either the vertical or horizontal planes. The unit is secured to the table of the machine, either by bolting through or by screwing into holes tapped into the cast iron bed. If drilling the holes into the table of your machine is too disheartening then the purchase of the universal quick fix support plate (800430) is an excellent solution.

The plate bolts onto the corner of a table and is clamped in place with the bolts provided. The top of the plate is drilled and tapped to accept all of the power feed units we offer, allowing the unit to be bolted on to whichever machine it is required on.



Sliding Table Extension Assembly



Tenon Plate



Co-Matic AF32 Junior Power Feed in operation



Co-Matic AF32 Junior Power Feed

Routine Maintenance

DISCONNECT THE MACHINE FROM THE MAINS SUPPLY!

Spindle Moulder

- Keep the cutter block clean and free from dust build up.
- Check the cutter block regularly for chipped blades and damage to block i.e cracks in the cutter block.
- When changing the cutter block, remove the cutter block and place safely away, clean the spindle by spraying a light coating of oil over the shaft and install a new cutter block.
- •Opening the access door for the spindle moulder, check the belt tension. If the belt is loose, using the 10mm allen key lossen the motor caphead bolt and push/pull until the belt is under tension again, tighten the motor bolt to keep the tension.
- If the "Spindle Moulder" is not going to be used for a period of time spray, a light coat of oil over the table service and blades, this will help prevent rust and place a dust sheet over the spindle moulder.

Major Service

After several months of constant use the condition of the chains, sprockets and tension of the drive belts and the treaded drive shafts of the rise and fall tilt mechanisms will need to be checked, that will require a service engineer to see over the job. If you find that the machine is not performing as it should please contact "Axminster Tool Centre" by phone on 0800 371822.



DISCONNECT THE MACHINE FROM THE MAINS SUPPLY!

Trouble Shooting Guide					
Problem	Cause	Solution			
Motor is slow or weak	Voltage from source is low. Windings are burned out or open. Power Switch is defective. Circuit is overloaded with appliances, lights, or other electrically powered equipment.	Request a voltage check from local power company. Have the Motor checked / repaired. Have the Power Switch replaced. Do not use other appliances or electrically powered equipment on the same circuit when using the Machine.			
Motor overheats.	Motor is overloaded. Blunt cutting tool.	Request a voltage check from the local power company. Replace the cutting tool.			
When cutting, the cutter burns the work-piece, or stalls the motor.	Cutting tool is blunt. Work-piece is warped.	Sharpen or replace the cutting tool. Replace the work-piece.			
Bevel & Height Handles are hard to turn.	Dust has collected on the mechanisms inside the base.	Clean and lubricate the mechanisms inside the base.			
The spindle does not bevel or does not lower or raise.	Bevel Lock Handle is not fully released. Height Lock Handle is not fully released.	Fully release the Bevel Lock Handle. Fully release the height Lock Handle.			
Spindle moulder vibrates excessively.	Floor surface is uneven. V-belt is damaged. Milling tool is damaged. Loose bolt. Screws, Nuts.	Raise up each leg until the machine is level. Replace the V-beit. Replace the cutting tool. Tighten all Screws, Nuts.			
Spindle moulder does not start.	Motor Cord is not plugged in. Circuit fuse is blown. Circuit breaker is tripped. Motor Cord or Switch is damaged.	Plug in Motor Cord to volt electrical outlet. Replace circuit fuse. Reset circuit breaker. Have the Motor Cord or Switch replaced.			
Power Switch does not operate.	Power Switch contacts are burned out. Capacitor is defective. Wiring connections are loose or damaged.	Have the Power Switch replaced. Request a voltage check from the local power company. Have the Capacitor replaced. Have the wiring connections checked/repaired.			
ses or circuit breakers open frequently. Fuses or circuit breakers are wrong size or defective. Blunt cutting tool. Power Switch is defective. Fuses or circuit breakers are wrong size or defective. Power Switch is defective. Fuses or circuit breakers are wrong size or defective. Replace the cutting tool. Have the Power Switch replac Tool Centre on 0800 371822)		Feed work-piece more slowly. Replace fuses or circuit breakers. Replace the cutting tool. Have the Power Switch replaced, (contact Axminster Tool Centre on 0800 371822)			
Motor stalls, blows fuses, or trips circuit breakers.	Motor is overloaded. Blunt cutting tool. Fuses or circuit breakers are wrong size or defective. Feeding work-piece too rapidly.	Request a voltage check from the local power compar Replace the cutting tool. Replace fuses or circuit breakers. Feed work-piece more slowly.			
Spindle moulder is noisy when running.	Motor is loose or defective.	Have the Motor checked/repaired, (contact Axminster Tool Centre on 0800 371822)			
Warning: To prevent persona done only by a qualified techni	I injury or damage to the spindle moulde ician (contact Axminster Power Tool Cer	r, maintenance and repairs should be htre on 0800 371822).			



No.	DESCRIPTION	Q'ty
1	Spindle shaft	1
2	Spindle ring Φ50x30x30mm	1
3	Spindle ring Φ 50x30x10mm	1
4	Cutting tool	- 1
5	Lock flange	1
6	Allen bolt M12x25	1
7	Allen wrench 10mm	1

No.	DESCRIPTION	Q'ty
8	Spindle ring Φ50x30x20mm	1
9	Spindle ring Φ 50x30x10mm	1
10	Spindle ring Φ50x30x5mm	4



No.	DESCRIPTION	Q'ty
A-1	Safer guard	1
A-2	Table	1
A-3	Allen bolt M10x70	4
A-4	Mill drive set	1
A-5	Lock nut M10	12
A-6	Flat washer 10mm	8
A-7	Scutcheon	1
A-8	workstand Spindle beight display	
A-9	Spindle neight display	1
A-10 A-11	Switch(QKS8)	1
A-12	Cross recessed pan head screw M4x30	2
A-13	Left panel, machine housing	1
A-14	Startype screw M8x15	1
A-15	Lock nut M12	4
A-16	Thrust bearing 8101	2
A-17	Swing arm	1
A-18	Lock nut M16	1
A-19	Sliding bench (optional)	1
A-20	Guide rail	1
A-21	Sliding rail	1
A-22	Workplece	1
A-23	Allen bolt M12x65	2
A-24	Carriage bolt, M8x45	2
A-25	Lock nut M8	4
A-26	Guide, bolt	2
A-27	Allen bolt M8x16	4
A-28	Lock nut M12	2
A-29	End stop, guide	2
A-30	Hey head screw M5x16	4
A-30	Hear field Sciew MOXID	-
A-31	Hex head screw M6x50	2
A-32	Lock nut M6	2
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	No.	DESCRIPTION	Q'ty
	B-1	Dust outlet	1
	B-2	Cross recessed pan head screw M5x12	2
	B-3	Cross recessed pan head screw M5x16	2
	B-4	Setting knob, spindle latch	2
	B-5	Lock piece, handle	2
	B-6	Hex head screw M5x16	4
	B-7	Hex nut M5	4
	B-8	Lock spacer	2
	B-9	Flower screw M8x25	2
	B-10	Hex nut	2
	B-11	Safer guard	1
	B-12	Rachet lever	2
	B-13	Lock cover	1
	B-14	Roll pin 4x16	2
	B-15	Starknob	2
	B-16	Spring	2
	B-17	Screw	2
	B-18	Flat washer 8mm	2
	B-19	Guide spindle, spindle latch	2
	B-20	Countrsunk head screw M8x20	2
	B-21	Fence extrusion carriage	2
	B-22	Flower nut	2
	B-23	Flat washer 8mm	2
	B-24	Batten	2
	B-25	Countrsunk head screw M5X10	12
	B-26	Guide, bolt	2
	B-27	Carriage bolt, M8x40	2
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No.	DESCRIPTION	Q'ty
B-28	Lock screw M6X20	8
B-29	Fence extrusion	2
B-30	End cap,fence	2
B-31	Plate, anti-kickback	1
B-32	Rod, roller	2
B-33	Flat washer 5mm	4
B-34	Cross recessed pan head screw M5x12	4
B-35	Feed arm	2
B-36	Starknob	6
B-37	Hex nut	6
B-38	Insert, feed arm	2
B-39	Roll pin 3X10	4
B-40	Rod, roller	2
B-41	Roller frame	1
B-42	Roller house	3
B-43	Roll pin 4X35	6
B-44	Roller	3
B-45	Plate spring	3
B-46	Hex head screw M6X35	3
B-47	Lock nut M6	3
B-48	Feeder base	1
B-49	Block,feeder base	1
B-50	Roll pin 3X10	1
B-51	Cover, safer guard	1
B-52	Feeder arm	1
B-53	Allen bolt M8x20	9
B-54	Flat washer 8mm	7



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No.	DESCRIPTION	Q'ty
C-1	Tilting set	1
C-2	Support, swivel turnion	2
C-3	Swivel guide	- 1
C-4	Swivel, turnion	2
C-5	Lockup seat	1
C-6	Allen bolt M10x35	2
C-7	Allen bolt M8x16	2
C-8	Flat washer 12mm	1
C-9	Lockup shaft	1
C-10	Tilt locking lever	1
C-14	Tilt locking block	1
C-15	Lockup seat	1
C-16	Spindle shaft set	1
C-17	Swivel head	1
C-18	Allen bolt M10x35	4
C-19	Spring washer 10mm	4
C-20	Flat washer 10mm	4
C-21	Allen bolt M6x20	4

No.	DESCRIPTION	Q'ty
C-22	Joint, swivel rod	1
C-23	Elevator	- 1
C-24	Allen bolt M8x20	4
C-25	Allen bolt M10x16	1
C-26	Big flat washer 10mm	1
C-27	Allen bolt M12x30	1
C-28	Allen bolt M8x20	2
C-29	Hex head screw M8x16	1
C-30	Spindle pulley	1
C-31	Flat key 8x8x25	1
C-32	V-belt	1
C-33	Allen bolt M10x45	1
C-34-	Motor set	1
C-35	Allen bolt M10x16	1
C-36	End stop, guide	1
C-37	Allen bolt M10x45	4
C-38	Nut, swivel rod	1
C-39	Nut,fix rod	4



No.	DESCRIPTION	Q'ty
D-1	Countersunk head screw M5x12	1
D-2	Large washer 6mm	1
D-3	Wheelhandle	1
D-4	Large washer 12mm	1
D-5	Pear plate, lock lever	1
D-6	Allen bolt M6x25	1
D-7	Bushing, pointer	1
D-8	Lock lever, rise	1
D-9	Rise shaft	1
D-10	Housing, rise shaft	1
D-11	Allen bolt M8x25	4
D-12	Spring washer 8mm	4
D-13	Ball bearing 80202	1
D-14	Bushing,worm	1
D-15	Worm	1
D-16	Carrier, rise gear	1
D-17	Gear-helical	1
D-18	Bushing, spindle	1
D-19	Thrust bearing 8105	1
D-20	Special washer	1
D-21	Thin hex nut M20	2
D-22	Rising spindle	1



No.	DESCRIPTION	Q'ty
E-1	Allen bolt M12x25	1
E-2	Lock flange	1
E-3	Spindle shaft A	1
E-4	Cross recessed pan head screw M5x10	2
E-5	Lock nut A	1
E-6	Lock nut B	1
E-7	Allen bolt M5x16	8
E-8	Cup, Spindle guide tube	2
E-9	Spindle shaft B	1
E-10	Spindle guide tube	1
E-11	Ball bearing 80106	2
E-12	Lock nut M30	ī
E-13	Lock nut M30	1



No.	DESCRIPTION	Q'ty	No.	DESCRIPTION	Q'ty
F-1	Countersunk head screw M5x12	1	F-7	Circle 19mm	1
F-2	Large washer 6mm	1	F-8	Gear base	1
F-3	Wheelbandle	1	F-9	Bushing,worm	1
E-4	Circle 9mm	1	F-10	Roll pin 3x16	1
F-5	Pin, cone gear	1	F-11	Gimbal	1
F-6	Ball bearing 619/8	2	F-12	Swivel rod	1



No.	DESCRIPTION	Q'ty	No.	DESCRIPTION	Q'ty
G-1	Allen bolt M10x15	1	G-11	Lock nut M10	3
G-2	Flat washer 10mm	1	G-12	Lever, tension	1
G-3	Guide bar	1	G-13	Circle 24mm	1
G-4	Joint, tension	1	G-14	Motor pulley	1
G-5	Flat washer 16mm	1	G-15	Large washer 10mm	1
G-6	Hex nut m16	1	G-16	Allen bolt M10x20	1
G-7	Thread, joint	1	G-17	Hex head screw M12x40	1
G-8	Lock nut M10	1	G-18	Mount, motor	1
G-9	Joint, motor tension	1	G-19	Motor	1
G-10	Thread, tension	1	G-20	Hex nut M12	1



No.	DESCRIPTION	Q'ty
H-1	Cross recessed pan head screw M4x12	2 2
H-2	Switch KJD17B-16	1
H-3	Switch Batten	1
H-4	ZH-HC-3	1
H-5	Nut M20	1
H-6	Electrical wire	1



No.	DESCRIPTION	Q'ty
I-1	Guide bar	1
1-2	End cap	2
1-3	Telescopic arm	1
1-4	Allen bolt M6x12	4
1-5	Circle 24mm	8
1-6	Ball bearing 61901	8
1.7	Partiality shalf	4
1-8	Wheel	4
1_0	Telescopic arm	1
1-10	Allen bolt M6x12	1

No.	DESCRIPTION	Q'ty
I-11	Cross recessed pan head screw M5x12	8
I-12	End cap	2
I-13	Allen bolt M6x12	1
I-14	washer 6mm	1
I-15	Guide, bolt A	1
I-16	Guide, bolt B	1
I-17	Guide, bolt C	1
I-18	Swing arm	1
I-19	Guide bar	1
1-20	Allen bolt M6x12	1







No.	DESCRIPTION	Q'ty
K-1	Sliding bench	1
K-2	Tilt lock	2
K-3	Spring washer 6mm	2
K-4	Bolt guide	1



No.	DESCRIPTION	Q'ty
L-1	Table ring 200mm for tilt	1
L-2	Table ring 110/80mm	1
L-3	Table ring 150/110mm	2
L-4	Table ring 200/150mm	1
L-5	Flange	1
L-6	Collet	1
L-7	Spindle shaft	1



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Only for EU countries



Do not dispose of electric tools together with household waste material. In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.