

# AW140BS

## Bobbin Sander





## Axminster Tool Centre Ltd



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### EC DECLARATION OF CONFORMITY 'original'

**Product model:** Axminster Workshop AW140BS Bobbin Sander

**Name and address of the manufacturer:** Axminster Tool Centre Ltd, A-201, Haagsche Hof, Parkstraat 83, The Hague, 2514 JG, Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer.

**Object of the declaration:**

*The object of the declaration described above is in conformity with the relevant EU legislation:*

Machinery Directive 2006/42/EC  
EMC Directive 2014/35/EU

*References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:*

ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction  
EN 50370-1:2005 Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1: Emission  
EN 50370-2:2003 Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2: Immunity

**Additional information:**

**Name and address of person authorised to compile the technical file:** Axminster Tool Centre Ltd, A-201, Haagsche Hof, Parkstraat 83, The Hague, 2514 JG, Netherlands.

The machinery fulfils all relevant provisions of Supply of Machinery (Safety) Regulations 2008 as amended.

**Signed for and behalf of:** Axminster Tool Centre Ltd;

**(place and date of issue):** Axminster, Devon, United Kingdom Kingdom, 14/1/25  
**(name, function):** Andrew Parkhouse, Supply Chain Director

**Signature:**

### UK DECLARATION OF CONFORMITY 'original'

**Product model:** Axminster Workshop AW140BS Bobbin Sander

**Name and address of the manufacturer:** Axminster Tool Centre Ltd, Unit 10 Weycroft Avenue, Axminster, Devon EX13 5PH, United Kingdom

This declaration of conformity is issued under the sole responsibility of the manufacturer.

**Object of the declaration:**

*The object of the declaration described above is in conformity with the relevant GB legislation:*  
Supply of Machinery (Safety) Regulations 2008 as amended.  
Electromagnetic Compatibility Regulations 2016 as amended.

*References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:*

ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction  
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# AW140BS

## TECHNICAL SPECIFICATION

|  |   |
|--|---|
| Motor Capacity                             | 1/2Hp, 370 Watt                             |
| Voltage                                    | 230V, 50 Hz                                 |
| No load speed                              | 1400 rpm                                    |
| Work table size                            | 370 x 370 mm                                |
| Work table tilt                            | 0° – 45°                                    |
| Bobbin size                                | Sanding drums (5)<br>1/2" 3/4" 1" 1-1/2" 2" |
| Bobbin travel                              | 24 mm                                       |
| Sound power level: no load<br>with load    | 80 dB<br>78 dB                              |
| Sound pressure level: no load<br>with load | 69.6 dB<br>65.9 dB                          |

# SAFETY INSTRUCTIONS

The following safety information is a mandatory requirement as detailed in BS EN 61029-1:2000 safety of transportable motor-operated electric tools Part 1: General requirements and EN 50144-1:1995 Safety of hand-held motor-operated tools Part 1: General requirements.

## GENERAL SAFETY INSTRUCTIONS

Read and understand all these instructions before attempting to operate this product and keep them in a safe place for future reference.

**“WARNING!”** When using electric power tools the following basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury.

## SAFETY INSTRUCTIONS

Before attempting to operate this machine, it is important that you read, understand and follow these instructions very carefully. They are designed for the safety of yourself and others ensuring a long and trouble free service life from your machine.

## SAFE OPERATION

### KNOW YOUR POWER TOOL

It is important that you read and understand our instruction manual and any label attached to the power tool. Learn its applications as well as its limitation and the potential hazard associated with this power tool.

## WORK AREA

Cluttered benches and work areas invite accidents. Workbenches should be kept tidy. Floors should be kept clean and free from rubbish. Special care should be taken where the floor is slippery due to sawdust or wax.

## WORK ENVIRONMENT

Do not expose your power tool to rain, or use in damp or wet locations. Keep the work area well lit. Do not use power tools in areas where there is a risk of explosion or fire from combustible materials, flammable liquids, paint, varnish, petrol etc. flammable gases and dust of an explosion nature.

As a precaution it is recommended that you consult an expert on a suitable fire extinguisher and its use.

## GUARD AGAINST ELECTRIC SHOCK

Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, and refrigerators).

## BEWARE CHILDREN AND PETS

Children and pets should be kept out of the work area. Children not be allowed to touch or operate machinery or touch extension cords.

All power tools should be kept out of the reach of children, preferably stored or locked in a secure cabinet or room when not in use.

## DO NOT FORCE THE POWER TOOL

The power tool will do a better and safer job and give you much better service if it is used at the rate for which it was designed.

## USE THE RIGHT TOOL

Select the right tool for the job. Do not use a tool for a job for which it was not designed. Do not force a small tool to do the job of a heavy-duty tool. Do not use tools for purposes not intended; for example do not use a circular saw to cut tree limbs or logs.

## PERSONAL SAFETY CLOTHING

Do not wear loose clothing, jewellery or anything that could get caught in moving machinery.

## HAIR

Long hair should be tied back or contained in a protective covering.

## EYE PROTECTION

The use of safety goggles is a mandatory requirement (normal glasses are not sufficient for eye protection). Prescription spectacles do not have safety lenses.

## FOOTWEAR

Where there is a risk of heavy objects damaging feet or if there is a risk of slipping on wet or slippery floors suitable non-slip safety footwear should be worn.

## HEAD PROTECTION

Where there is a risk of falling objects or hitting your head on protruding or low level obstructions a hard hat should be worn.

## RESPIRATORY PROTECTION

When the machining operation creates dust wear a dust mask. When machining concrete, man made fibre boards, especially MDF(Medium Density Fibre Board) the resin used in these materials can be hazardous to your health. Use an approved face mask with replaceable filter.

## DUST EXTRACTION EQUIPMENT

If the machine is fitted with dust extraction and collection facilities ensure that these are properly connected and used.

## DO NOT ABUSE THE POWER CORD

Never yank or pull on the power cord to disconnect it from the mains supply socket.

Never carry your power tool by its power cord. Keep the power cord away from heat, oil, solvents and sharp edges. If the power cord becomes damaged have it replaced by an authorized service facility.

## **SECURE THE WORK PIECE**

Wherever possible secure the work piece using clamps or a vice. It is safer than using your hand and leaves both hands free to control the power tool.

## **DO NOT OVER-REACH**

Do not over-reach, keep proper footing and maintain your balance at all times.

## **MAINTAIN TOOLS WITH CARE**

Keep cutting tools sharp and clean for better and safer performance.

Follow the instructions for lubricating and changing accessories.

Check the tool power cord periodically and if damaged have it replaced by an authorized service facility.

Inspect extension cords periodically and if damaged replace it.

Keep handles dry clean and free from oil and grease.

Ensure that ventilation slots are kept clean and free from dust at all times. Blocked ventilation slots can cause overheating and damage to the motor.

## **DISCONNECT POWER TOOLS**

Ensure that power tools are disconnected before semicing Lubricating or minus, adjustments and when changing accessories such as blades, bits and cutters.

## **REMOVE ADJUSTING KEYS AND WRENCHES**

Form the habit of always checking to see that keys and adjusting wrenches are removed from the power tool before turning it on.

## **AVOID UNINTENTIONAL STARTING**

Ensure that the switch is in the OFF position before plugging the power tool into the mains supply.

## **EXTENSION CORDS AND REELS**

Do not use 2 core extension cords or reels on power tools with an earth path. Always use a 3 core extension cord or reel with the earth core connected to earth.

When the power tool is to be used outdoors, use only extension cords intended for outdoor use and are so marked,

Always unwind any extension cords fully.

For extension cords up to 15 meters use a wire cross section of 1.5mm<sup>2</sup>.

For extension cords over 15 meters but less than 40 meters use a wire cross section of 2.5mm<sup>2</sup>.

Always replace a damaged extension cord before using it.

Protect your extension cord from sharp objects, excessive heat and damp or wet locations,

## **STAY ALERT**

Watch what you are doing, use common sense.

And do not operate the power tool when you are tired, if taking medication that causes drowsiness, when having consumed alcohol or taken drugs.

## **CHECK DAMAGED PARTS**

Before using the power tool it should be carefully checked to determine that it will operate properly and perform its intended function.

Check for the correct alignment of moving parts ensuring they do not bind. Check for broken or missing parts and have them replaced or repaired at an authorized service center.

If the power tool requires mounting make sure it is securely attached to a suitable work bench .Check any other condition that may affect the operation of the power tool.

A guard or any other part of the power tool that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated in this instruction manual.

Any switch that does not operate correctly must be replaced by an authorized service center.

Do not use the power tool if the ON/OFF switch does not turn the power tool ON and OFF.

## **WARNING!**

Do not attempt to modify the power tool in any way. The use of any attachment or accessory other than those recommended in this instruction manual could result in damage to the power tool and injury to the operator.

Have your power tool repaired by a qualified person.

This electric power tool complies with national and international standards and safety requirements. Repairs should only be carried out by qualified persons to do so may result in considerable danger to the user.

## **PROTECT FURNISHINGS**

If using the power tool inside your house protect furnishings with a suitable dust.

## **FIRE PRECAUTIONS**

When using certain power tools your house or workshop general fire precautions should be observed. As a Precaution, it is recommended that an expert is consulted on obtaining and using a suitable fire extinguisher.

# SPECIFIC SAFETY INSTRUCTIONS

## EXTREME CAUTION REQUIRED

Be aware that the paint on old wood could contain high levels of lead. Extreme care should be taken when sanding painted surfaces. The dust may contain LEAD which, if touched, ingested or inhaled will cause poisoning and can be fatal.

Any pre 1960's building may have had paint containing lead on wood or metal structures and surfaces.

## STOP!

If you suspect paint in your house contains lead seek professional help.

Once lead is in the body it is retained until a fatal level is reached. Small amounts of exposure can cause irreversible brain and nervous system damage. The young and unborn are particularly at risk.

## WARNING!

Some wood and type products especially MDF (Medium Density Fibre-board) can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.

Ensure that power tools are disconnected from the mains supply when not in use, before servicing, lubricating or making adjustment and when changing accessories such as table inserts and sanding belts.

This machine has been designed for sanding wood, wood type products and plastics. It must not be used for sanding metal as the sparks could ignite sawdust and wood shavings.

It is not recommended that this machine be used for sanding fiberglass or similar materials as the particles generated can cause undue wear on bearings etc.

Do not attempt to use for sanding operations as a fatal electric shock could occur. This machine is to be used for dry sanding only.

Ensure that the sanding drum is the correct size for the bobbin being used.

Do not start the machine whilst it is in contact with the work piece.

Check the work piece for any protruding nails, screw heads or anything that could tear or damage the sanding drum.

Replace the sanding drum as soon as it becomes worn or if it is torn, torn sanding drums can cause deep scratches that are difficult to remove.

Always start sanding with a coarse grade of sanding drum working through the grades to the finest grade.

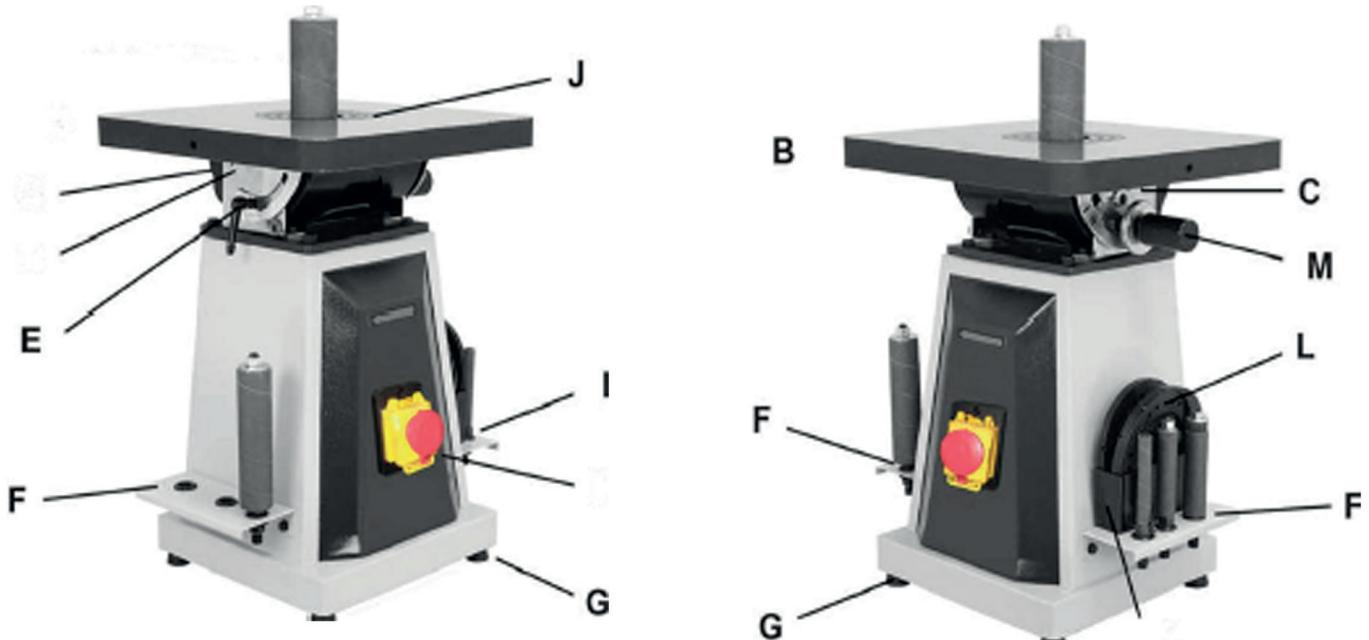
Never try to modify the machine or fit accessories other than those recommended in this manual.

Regularly clean the machine and remove any build up of sawdust inside and around there housing. A build up of sawdust can be a fire hazard. Never leave the machine unattended while it is still running.

## TIP

An acceptable filler which could be a good colour match can be made by mixing the sanding dust with PVA glue.

# GETTING TO KNOW YOUR MACHINE

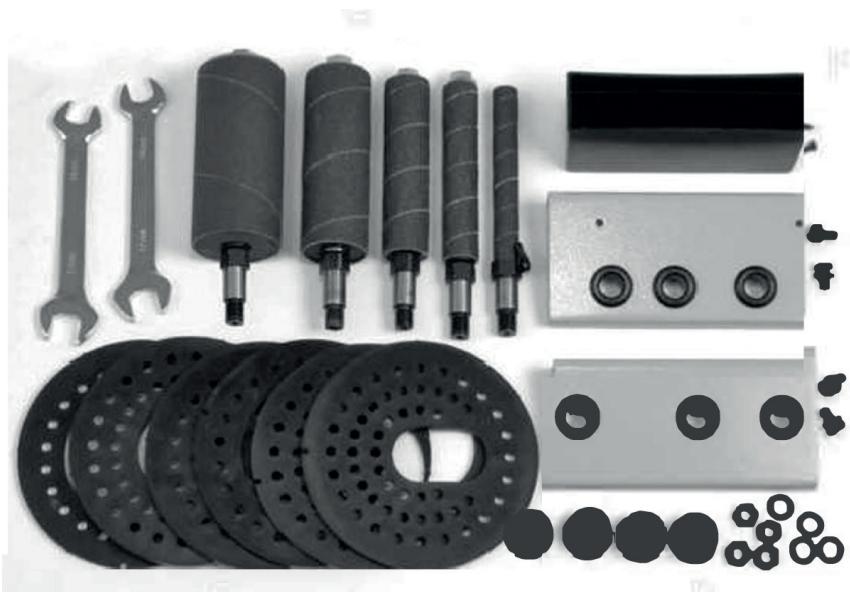


- A Spindle with Sanding Sleeve
- B Work Table
- C Dust Port
- D Cam for Table Leveling
- E Table Angle Scale and Locking Handle
- F Holder for Spindles
- G Rubber Feet (4)

- H ON / OFF Safety Switch
- I Holder for Spindles
- J Table Insert (installed in table)
- K Holder for Table Inserts
- L Table Inserts
- M Geared Handle with Lock for Tilting Table

## CONTENTS OF PACKAGE

- Wrenches (2) - 14mm, 17mm
- Table Inserts (6)
- Rubber Feet (4) & Hardware
- Tool Holders for Drums (2) & Hardware
- Holder for Table Inserts & Screws
- Sanding Drums (5) - 1/2" 3/4" 1" 1-1/2" 2"
- Manual & Warranty Card (not shown)



# ASSEMBLY

## CAUTION: THE MACHINE IS HEAVY AND MAY REQUIRE TWO PERSON LIFTING

Remove the Bobbin Sander from the packaging. The machine comes ready assembled apart from the sanding attachments and the rubber feet.

## ATTACHING THE RUBBER FEET

Lower the machine onto its side. Remove the feet from the plastic wrapping.

Remove the nut and washer from the thread.

Locate the four mounting points on the underneath of the machine. Insert the thread into the hole so that the rubber foot points downward (fig 1).

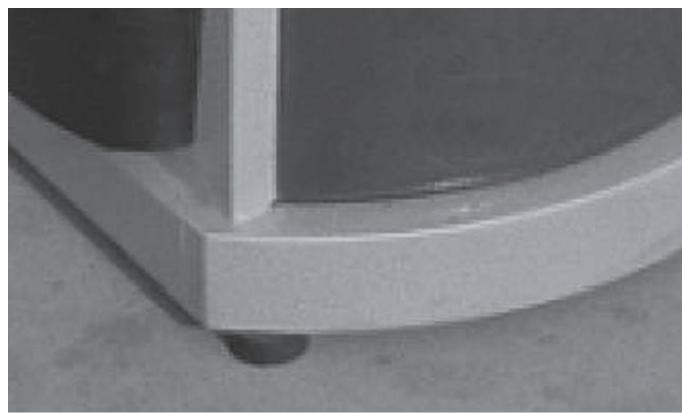


Fig 1

Put on the washer followed by the nut.

Tighten with a spanner. Repeat operation for the other three feet.

Site the machine at a suitable height enabling sanding operation to be carried out comfortably and in a safe manner.

## TO INSTALL THE SANDPAPER

### CAUTION: MAKE SURE THE MACHINE IS ISOLATED FROM THE SUPPLY BEFORE ANY MAINTENANCE, CLEANING OR ADJUSTMENTS ARE UNDERTAKEN.

The sander has been supplied with 5 set rubber cylinder or bobbins (fitted with sanding drum installed).

If you want to change the grade of sanding paper already attached to the bobbins proceed as shown.

Larger washer (Fig 2)

The bobbin consists of a rubber body with a metal axle passing through the center (fig2). The axle has a key which locates into a keyway in the rubber body.

Normally these should need not be disturbed unless the rubber body is damaged.

At either end of the body are two large compression washers.

At the top is a nut and washer to secure the cylindrical sandpaper. The low part of the axle is threaded which locates into the motor drive.



Fig 2



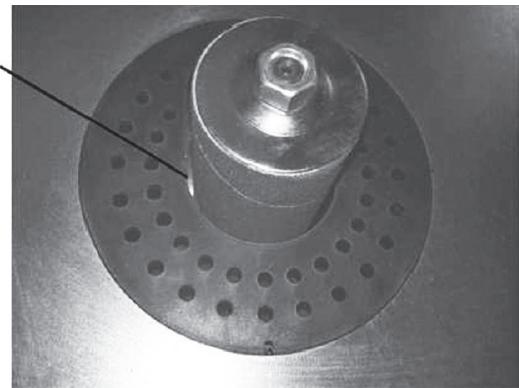
Fig 3

Remove the nut using a suitable spanner (fig 3), lift away the washer and slide the sanding drum clear of the bobbin.

If removal was difficult sprinkle a small amount of talcum powder onto the rubber to aid fitting the new sandpaper drum.



**Cutout**



**Fig 6**

Notice the cutout on the edge of the table insert. This aligns the peg in the recess on the table (fig 6). Lower into position making sure the table insert locates in the recess and is flush with the table.

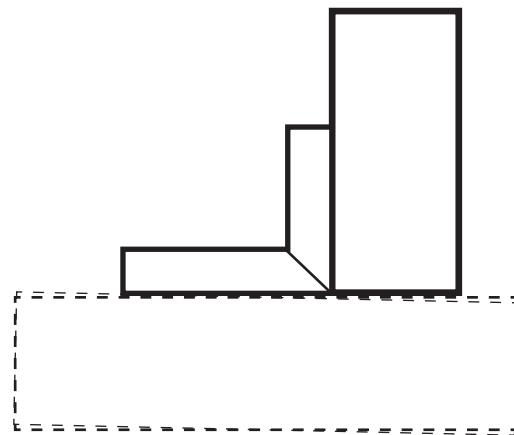
To remove simply push with your finger from underneath to dislodge the table insert.

### **CHECKING THE TABLE TOP ALIGNS WITH ZERO DEGREES**

The table top has the facility to tilt between 0° and 45°.

NOTE: Check that the table is set to 0° with respect to the bobbin. Using a suitable 90° square placed on the table top, move the square to the bobbin.

It should measure 90° (fig 7).



**Fig 7**

If the table is not square an adjustment can be made. Located under the work table is a stop bolt which adjusts the level of the table (fig 8).

Loosen the lock nut and raise or lower the stop bolt. Take note of when table is at 90° with the bobbin. Tighten the lock nut.

Locate the pointer and scale. Slacken the pointer screw. Align with the 0° position on the scale and re-tighten screw.

**Fig 4**

Various grades of sanding drum are available for different jobs. See your stockist for replacement of sanding drum.

Offer the sanding drum to the rubber body (fig 4). Slide onto the rubber body so it fits centrally with no edge overhanging.

Replace the washer and nut. With a spanner tighten the nut to expand the rubber body. This will grip the sanding drum. Do not over-tighten as this will distort rubber body.

### **INSTALLING THE BOBBIN ONTO THE MACHINE**

Lower the bobbin down through the top of the machine.

Locate the thread on the bobbin spindle into the thread on the motor drive spindle.

Hold the motor drive spindle with your hand and tighten the bobbin into the motor drive spindle.

Select two open ended spanners (fig 5).



**Fig 5**

With one spanner hold the motor drive tighten the bobbin spindle. Do not over-tighten.

### **SELECTING TABLE INSERT**

The machine comes with two table inserts. There is one with a round cutout and one with oval cutout.

For normal sanding choose the insert with the round cutout (fig 6).

# OPERATING INSTRUCTIONS

## ТИЛТИНГ THE TABLE

NOTE: Remove the table insert with the round cutout before tilting the table otherwise it will break.

The table will tilt 0° - 45°. Once the desired angle has been reached tighten the two locking knobs (fig 8).

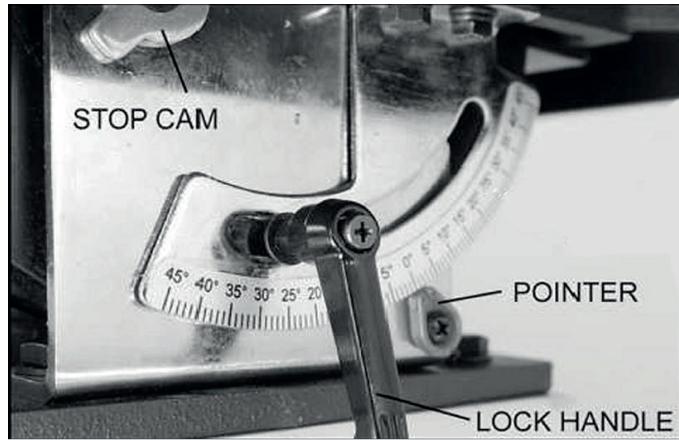


Fig 8

Locate the table insert with the oval cutout and place into the table top (fig 9).



Fig 9

## STARTING AND STOPPING

The machine is with a no volt switch. In the event of a power failure, the motor will not start once the power is restored.

Located on the front of the machine is the ON/OFF button incorporating the emergency stop button.

Insert the machine plug into a suitable 13 amp outlet socket.

Lift the emergency stop cover to reveal the ON/OFF buttons (fig 10).

Press the green button to start. Close the emergency stop cover. Do not close by pushing the large red button as the motor will stop.



Fig 10

## EMERGENCY STOP BUTTON

This is the large red button (fig 11). Simply hit the button and the machine will stop.

There is no need to lift the cover to access the stop button underneath.

To start the machine see starting and stopping. In the event of power failure the machine will not restart when the power is restored.



Fig 11

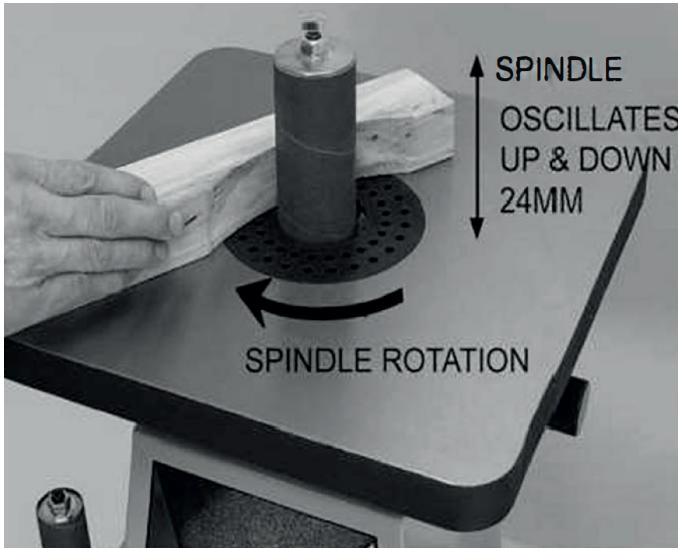
## USING THE BOBBIN SANDER

Start the machine and wait the motor has build up to full speed. It can be seen that the MM326C bobbin moves up down traveling 24mm and MM326D is 30mm in total.

CAUTION: NEVER START THE MACHINE WITH WORK IN CONTACT WITH THE BOBBIN

Looking from the front of the machine the motor turns in a clockwise direction (fig 12).

Feed the work across and with the direction of rotation.



**Fig 12**

### USING THE BOBBIN SANDER AT ANGLES 0° • 45°

NEVER feed the work into the machine and stand with your body directly behind it. The machine could force the work into the operator and cause serious injury.

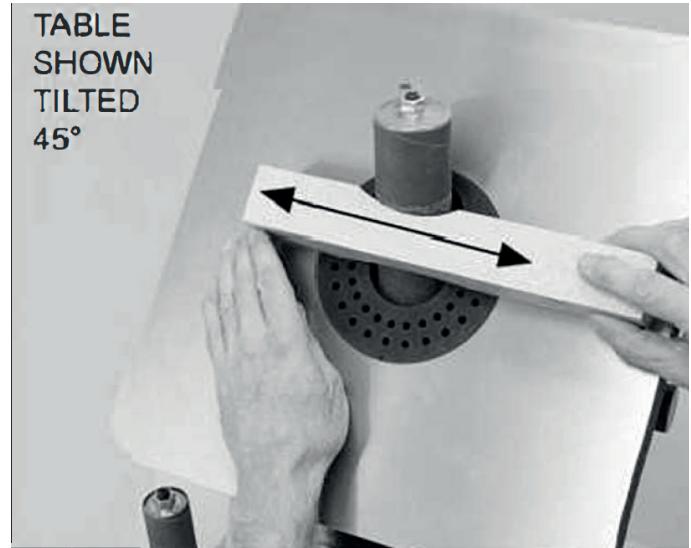
Take out the round insert and store carefully. Put in the oval insert (refer to selecting table insert, page 10)

Slacken the table securing knobs either side of the machine.

Tilt the table to the desired angle and re-tighten the locking knobs.

Feed the work into the machine always with the direction of rotation (fig 13).

TABLE  
SHOWN  
TILTED  
45°



**Fig 13**

**NOTE:** Always bear in mind that when the table is tilted to a particular position the angle will only remain constant if the work is run parallel to the bobbin.



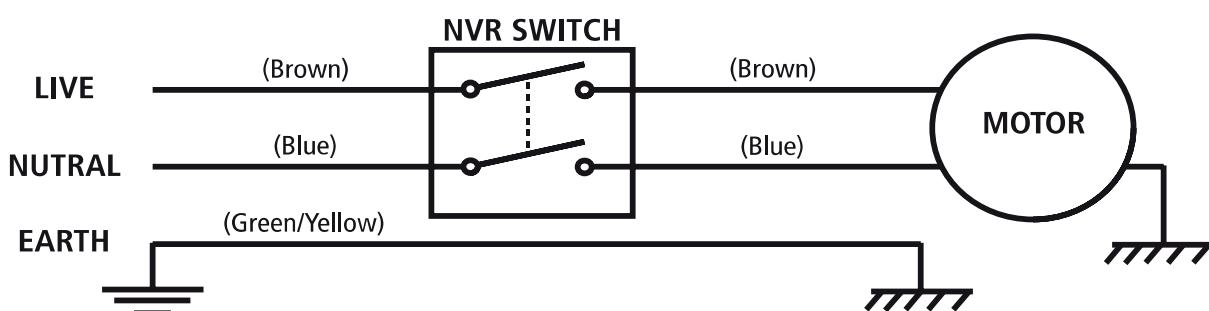
**Dust extraction outlet**

**Fig 14**

### DUST EXTRACTION

The machine is fitted with a 50mm diameter dust extraction outlet. This is located at the rear of the machine (figuring 14) and should be attached to a suitable extractor / collector.

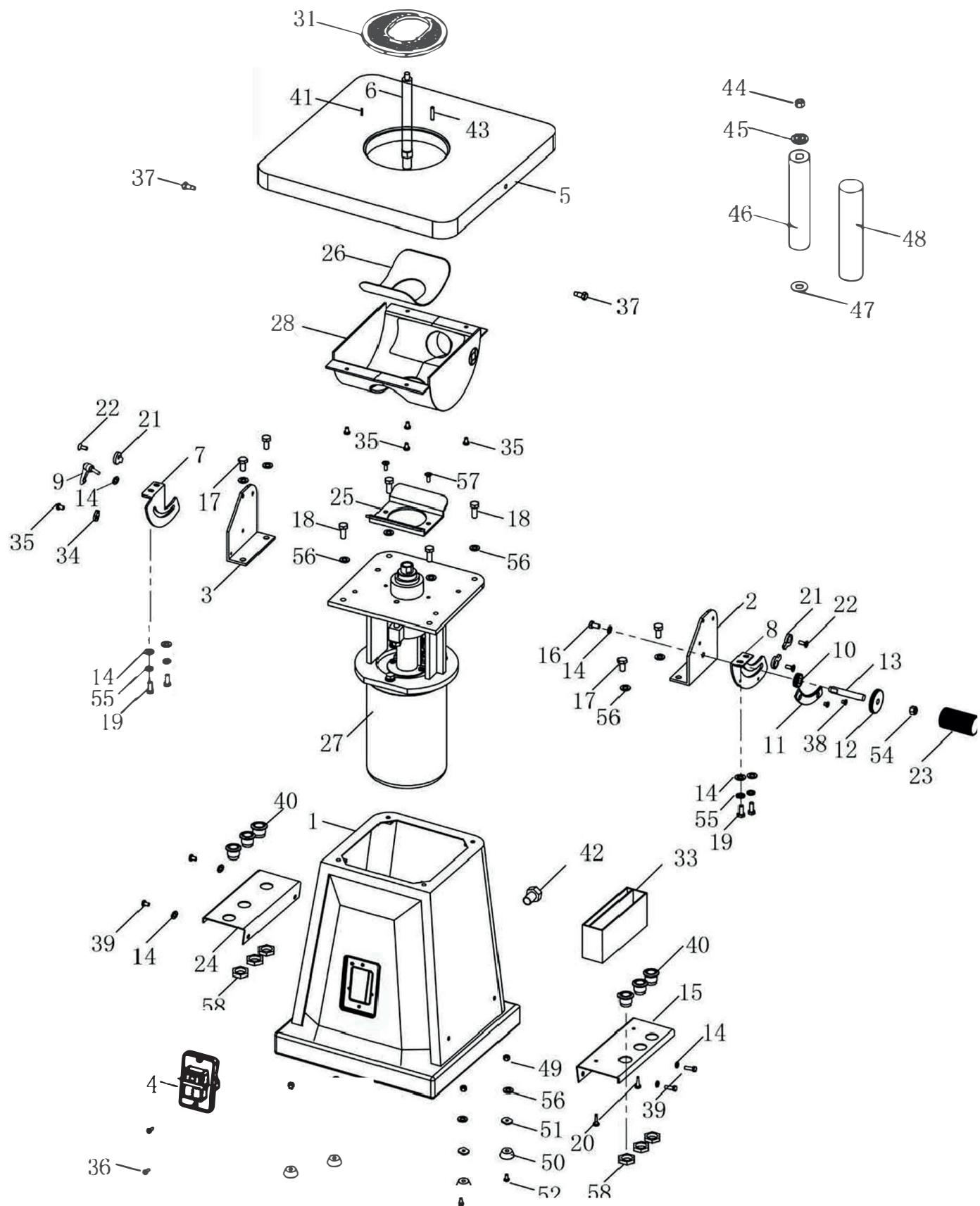
### WIRING DIAGRAM



## PARTS LIST FOR AW140BS DIAGRAM A:

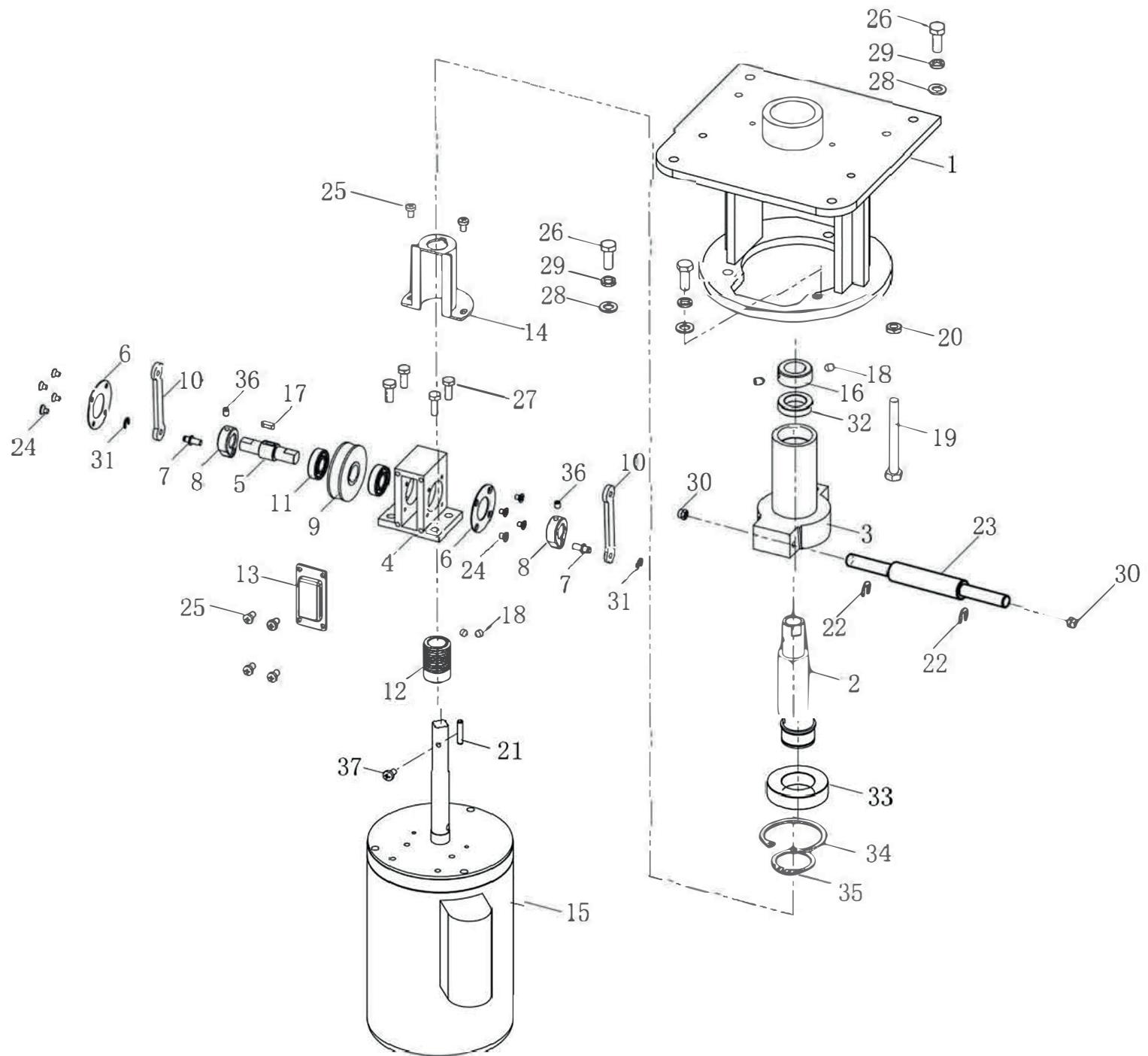
| KEY<br>NO. | DESCRIPTION                       | KEY<br>NO. | DESCRIPTION                   |
|------------|-----------------------------------|------------|-------------------------------|
| 1A         | Machine body                      | 31A        | Table insert                  |
| 2A         | Worktable bracket                 | 33A        | Tool holder for table inserts |
| 3A         | Worktable bracket                 | 34A        | Dial indicator                |
| 4A         | Switch                            | 35A        | Pan head screws M5x8          |
| 5A         | Work table                        | 36A        | Pan head screws M4x12         |
| 6A         | Connection rod                    | 37A        | Stepped bolt                  |
| 7A         | Rotation bracket of table (Left)  | 38A        | Countersunk screws M5x6       |
| 8A         | Rotation bracket of table (Right) | 39A        | Hex bolt M6x12                |
| 9A         | Ratchet level                     | 40A        | Cone sleeve                   |
| 10A        | Small gear                        | 41A        | Spring pin 2.5x20             |
| 11A        | Rack                              | 42A        | Cable strain relief M18       |
| 12A        | Locking ring                      | 43A        | Key 5x50                      |
| 13A        | Rotating shaft                    | 44A        | Left-handed nut M10           |
| 14A        | Washer 6                          | 45A        | Convex washer                 |
| 15A        | Right hand drum frame             | 46A        | Rubber sleeve                 |
| 16A        | Hex bolt M6x12                    | 47A        | Washer                        |
| 17A        | Hex bolt M8x16                    | 48A        | Sanding sleeve                |
| 18A        | Hex bolt M8x20                    | 49A        | Hex nut M8                    |
| 19A        | Hex bolt M6x16                    | 50A        | Rubber washer                 |
| 20A        | Tapping screws ST4.0x10           | 51A        | Nut washer                    |
| 21A        | Eccentric cam                     | 52A        | Hex bolt M8x25                |
| 22A        | Countersunk screws M6x12          | 54A        | Hex nut M10                   |
| 23A        | Rotation handle                   | 55A        | Spring washer 6               |
| 24A        | Tool holder for sanding drums     | 56A        | Washer 8                      |
| 25A        | Fixed section                     | 57A        | Pan head screws M6x12         |
| 26A        | Movable section                   | 58A        | Cone sleeve nut               |
| 27A        | Oscillation assembly              |            |                               |
| 28A        | Dust extraction housing/port      |            |                               |

## DIAGRAM A FOR AW140BS:



## PARTS LIST FOR AW140BS DIAGRAM B:

| KEY NO. | DESCRIPTION                         | KEY NO. | DESCRIPTION            |
|---------|-------------------------------------|---------|------------------------|
| 1B      | Motor base                          | 20B     | Hex thin nut M8        |
| 2B      | Spindle bushing with plastic insert | 21B     | Key 5x5x50             |
| 3B      | Guide column                        | 22B     | E-clip 6mm             |
| 4B      | Worm wheel frame                    | 23B     | Connecting rod axle    |
| 5B      | Worm wheel spindle                  | 24B     | Countersunk screw M4x6 |
| 6B      | Bearing gland                       | 25B     | Pan head screw M5x8    |
| 7B      | Crank axle                          | 26B     | Hex bolt M8x20         |
| 8B      | Crank                               | 27B     | Hex bolt M6x16         |
| 9B      | Worm wheel                          | 28B     | Washer 8               |
| 10B     | Connection rod                      | 29B     | Spring washer 8        |
| 11B     | Bearing 6001-2RS                    | 30B     | Self-locking nut M5    |
| 12B     | Worm gear                           | 31B     | E-clip 4mm             |
| 13B     | Cover, worm wheel frame             | 32B     | Bearing 61804          |
| 14B     | Plastic housing for worm gear       | 33B     | Bearing 6006           |
| 15B     | Motor                               | 34B     | Inner circlip 55mm     |
| 16B     | Bearing cover                       | 35B     | External circlip 30mm  |
| 17B     | Key 4x4x12                          | 36B     | Socket head screw M5x6 |
| 18B     | Hex set screw with flat M6x6        | 37B     | Pan head screw M4x12   |
| 19B     | Hex bolt M8x75                      |         |                        |





The packaging is suitable for recycling.  
Please dispose of it in a responsible manner.



EU Countries Only

Do not dispose of electric tools together with household waste material.  
By law they must be collected and recycled separately.



Axminster Tools, Axminster Devon EX13 5PH

**axminstertools.com**

For more information visit **axminstertools.com/3years**