Code 111879

Original Instructions

AW140BS

Bobbin Sander



Object of the Declaration: Axminster Workshop AW140BS Bobbin Sander 230v 111879

UK:
Supply of Machinery (Safety) Regulations 2008 as amended
Electromagnetic Compatibility Regulations 2016 as amended
Directive 2011/65/EU (RoHS 2)
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

EU:
Machinery Directive 2006/42/EC
EMC Directive 2014/35/EU
Directive 2011/65/EU (RoHS 2)
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

UK Address:
Newhow Limited.
Trading as Axminster Tools
Weycroft Avenue
Axminster. Devon
EX13 5PH

Standards used or references to the other technical specifications in relation to which conformity is declared:

ISO 12100:2010, EN 60204-1:2018+A1:2025

IEC 55014-1:2021, IEC 55014-2:2021, IEC 61000-3-2:2019+A1:2021, 61000-3-3:2013+A1:2019+A2:2021

European Address:
Newhow Limited.
Trading as Axminster Tools
A-201. Haagsche Hof
Parkstraat 83
The Hague
2514 JG
Netherlands

Date: 3/9/2026
Place: Axminster



Charlie Cross
Operations Director

CONTENTS

Section	Page
Contents	3
Technical Specification	3
Safety Instructions	4-5
Specific Safety Instructions	6
Getting to Know the Machine	7
Assembly and Setting Instructions	8-9
Operating Instructions	10-11
Wiring Diagram	11
Parts List & Diagram	12-15

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	0^0 – 45^0
Bobbin size	Sanding drums (5) 1/2" 3/4" 1" 1-1/2" 2"
Bobbin travel	24 mm
Sound power level: no load with load	80 dB 78 dB
Sound pressure level: no load with load	69.6 dB 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 taker 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 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 be 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 PORTECTION

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 1.5mm2.

For extension cords over 15 meters but less than 40 meters use a wire cross section of 2.5mm2.

Always replace a damaged extension cord before using it.

Pretect 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 ar 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 recommend that this machine be used for sanding fiberglass or similar materials as the particles generated can cause under ware on bearings etc.

Do not attempt to use for sanding operations as a fatal electric shock could occur. This machine is to be use 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 whit 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 hazing.
A build up of sawdust can be 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.

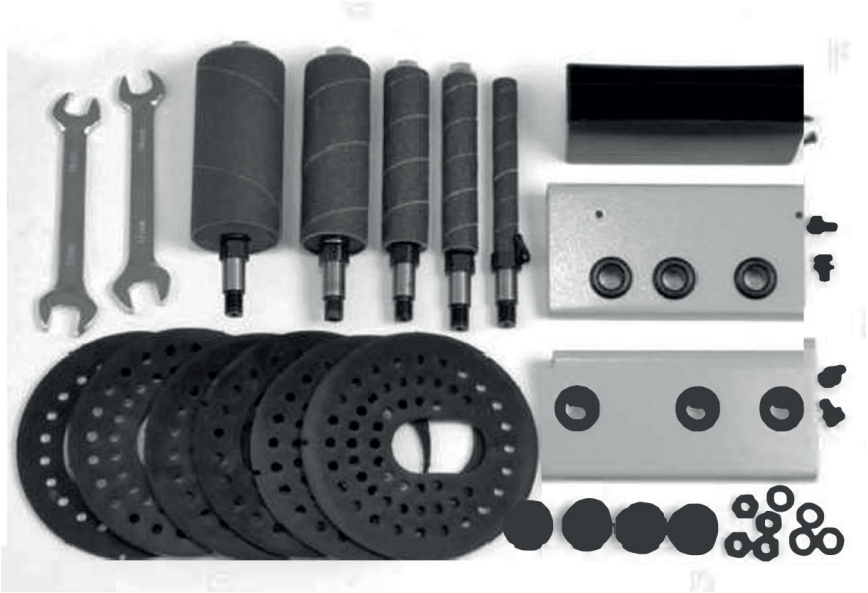
GETTING TO KNOW YOUR MACHINE



A	Spindle with Sanding Sleeve
B	Work Table
C	Dust Port
D	Cam for Table Levelling
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).

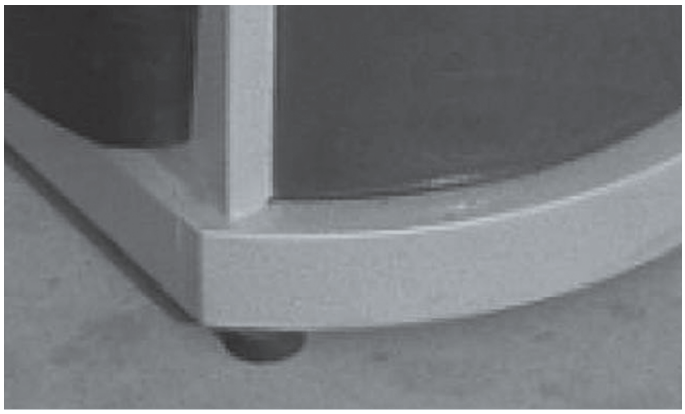


Fig 1

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.

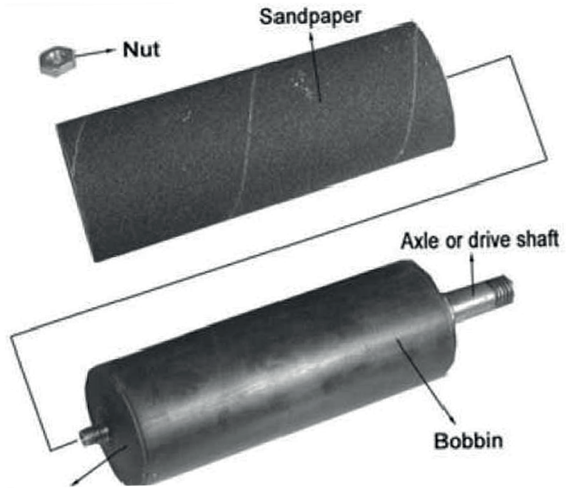


Fig 2



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.



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 (fig4). 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).

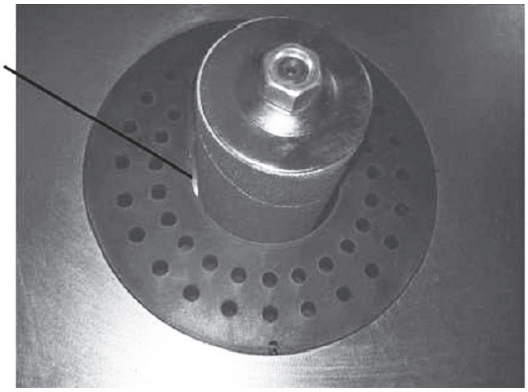


Fig 6

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 90^0 (fig 7).

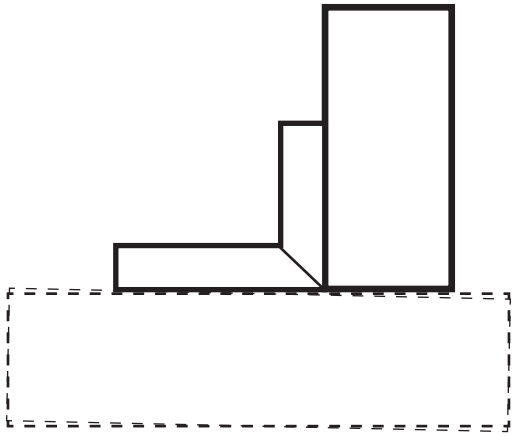


Fig 7

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 go0 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.

OPERATING INSTRUCTIONS

TILTING 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).

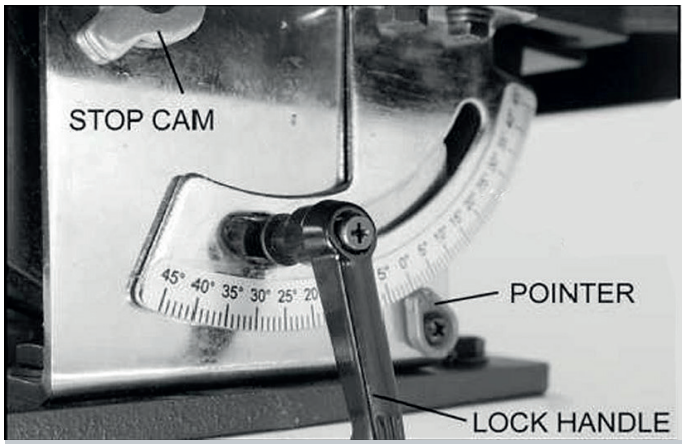


Fig 8

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 incorrporating 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 I ift 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.

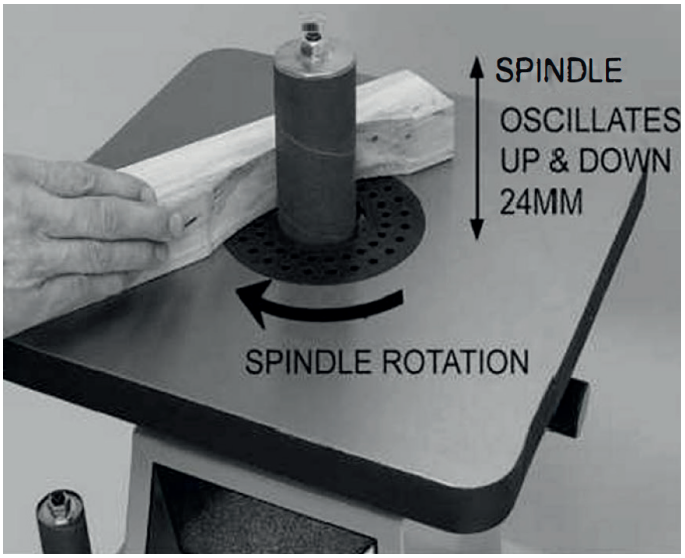


Fig 12

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).

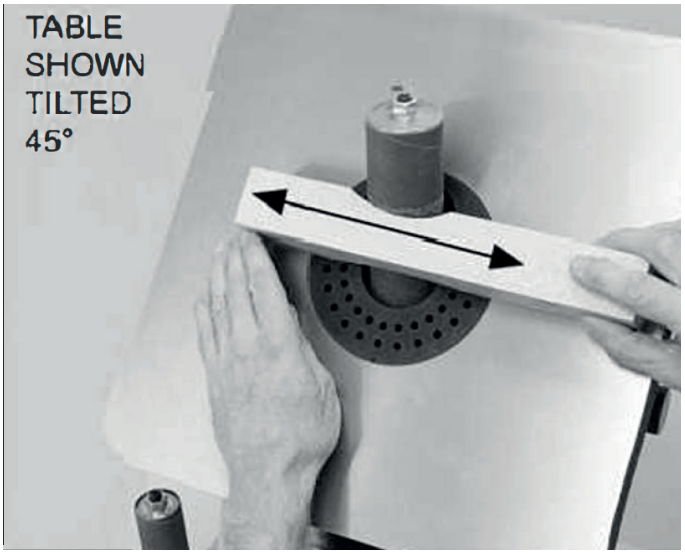


Fig 13

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.

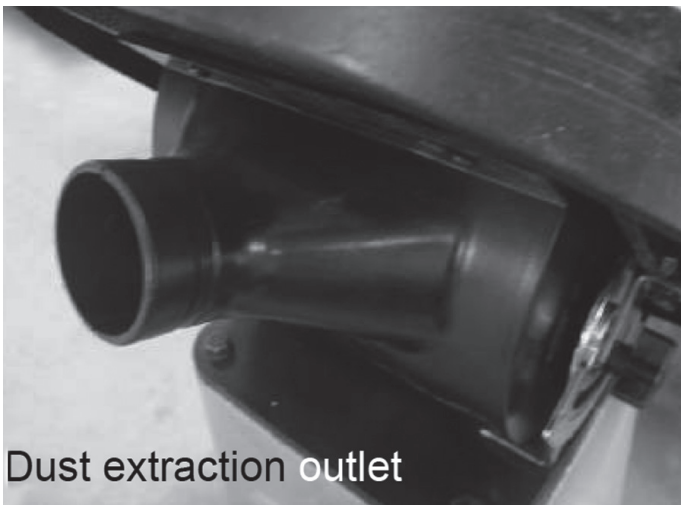
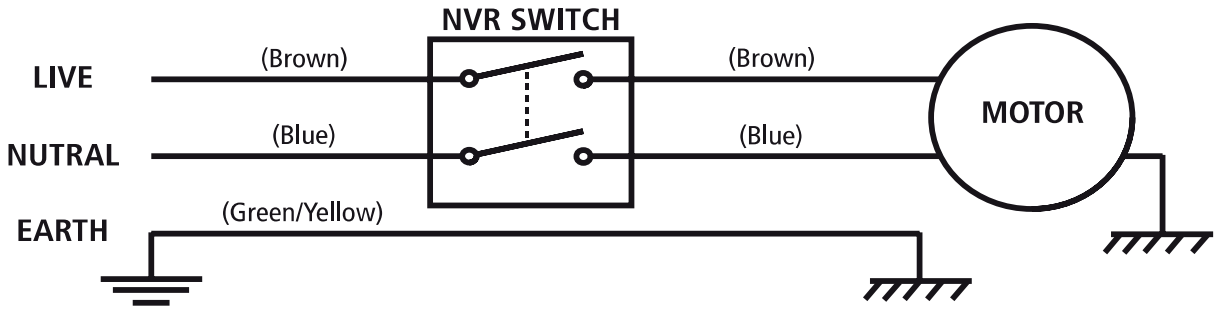


Fig 14

DUST EXTRACTION

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

WIRING DIAGRAM

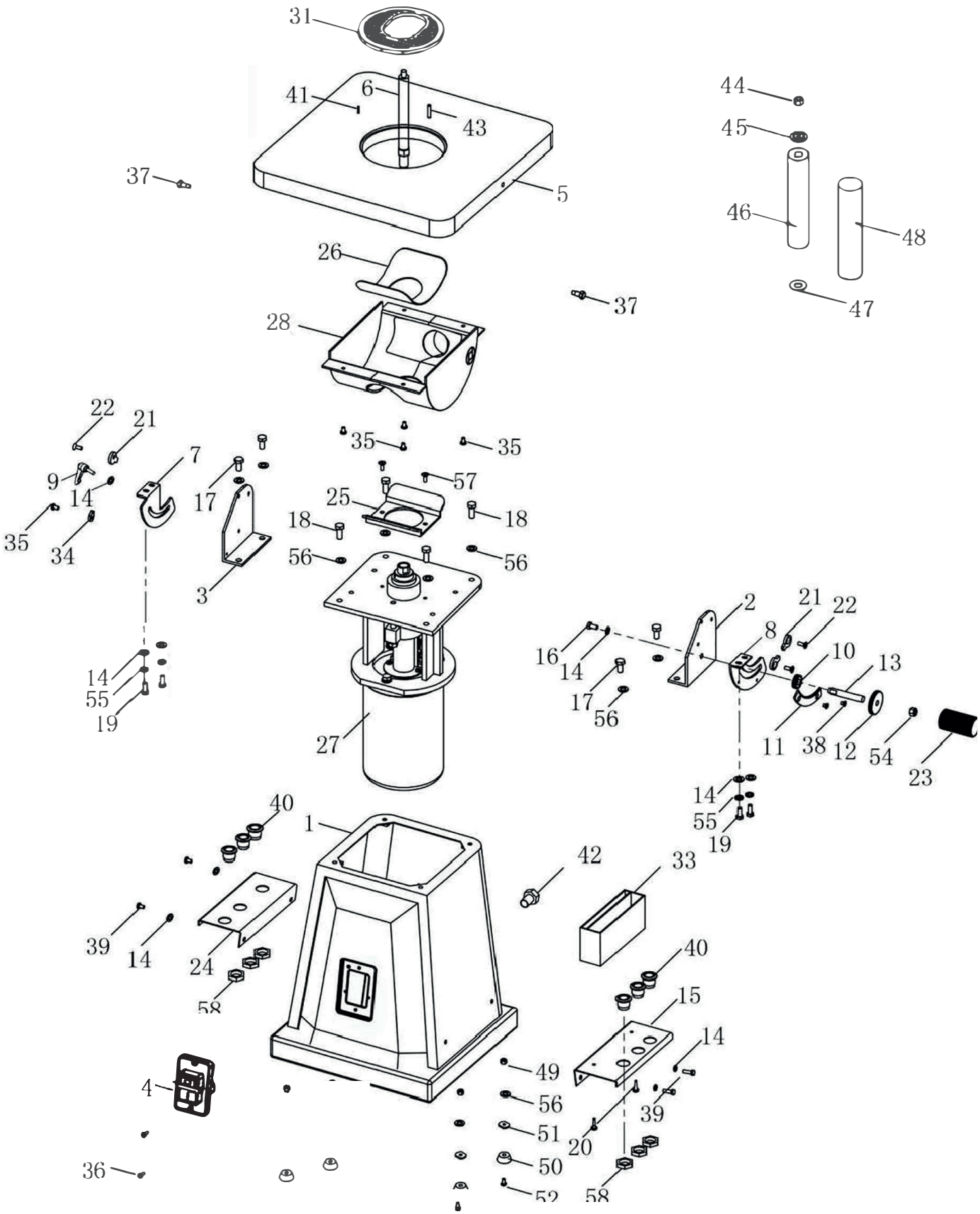


PARTS LIST FOR AW140BS DIAGRAM A:

KEY NO.	DESCRIPTION
1A	Machine body
2A	Worktable bracket
3A	Worktable bracket
4A	Switch
5A	Work table
6A	Connection rod
7A	Rotation bracket of table (Left)
8A	Rotation bracket of table (Right)
9A	Ratchet level
10A	Small gear
11A	Rack
12A	Locking ring
13A	Rotating shaft
14A	Washer 6
15A	Right hand drum frame
16A	Hex bolt M6x12
17A	Hex bolt M8x16
18A	Hex bolt M8x20
19A	Hex bolt M6x16
20A	Tapping screws ST4.0x10
21A	Eccentric cam
22A	Countersunk screws M6x12
23A	Rotation handle
24A	Tool holder for sanding drums
25A	Fixed section
26A	Movable section
27A	Oscillation assembly
28A	Dust extraction housing/port

KEY NO.	DESCRIPTION
31A	Table insert
33A	Tool holder for table inserts
34A	Dial indicator
35A	Pan head screws M5x8
36A	Pan head screws M4x12
37A	Stepped bolt
38A	Countersunk screws M5x6
39A	Hex bolt M6x12
40A	Cone sleeve
41A	Spring pin 2.5x20
42A	Cable strain relief M18
43A	Key 5x50
44A	Left-handed nut M10
45A	Convex washer
46A	Rubber sleeve
47A	Washer
48A	Sanding sleeve
49A	Hex nut M8
50A	Rubber washer
51A	Nut washer
52A	Hex bolt M8x25
54A	Hex nut M10
55A	Spring washer 6
56A	Washer 8
57A	Pan head screws M6x12
58A	Cone sleeve nut

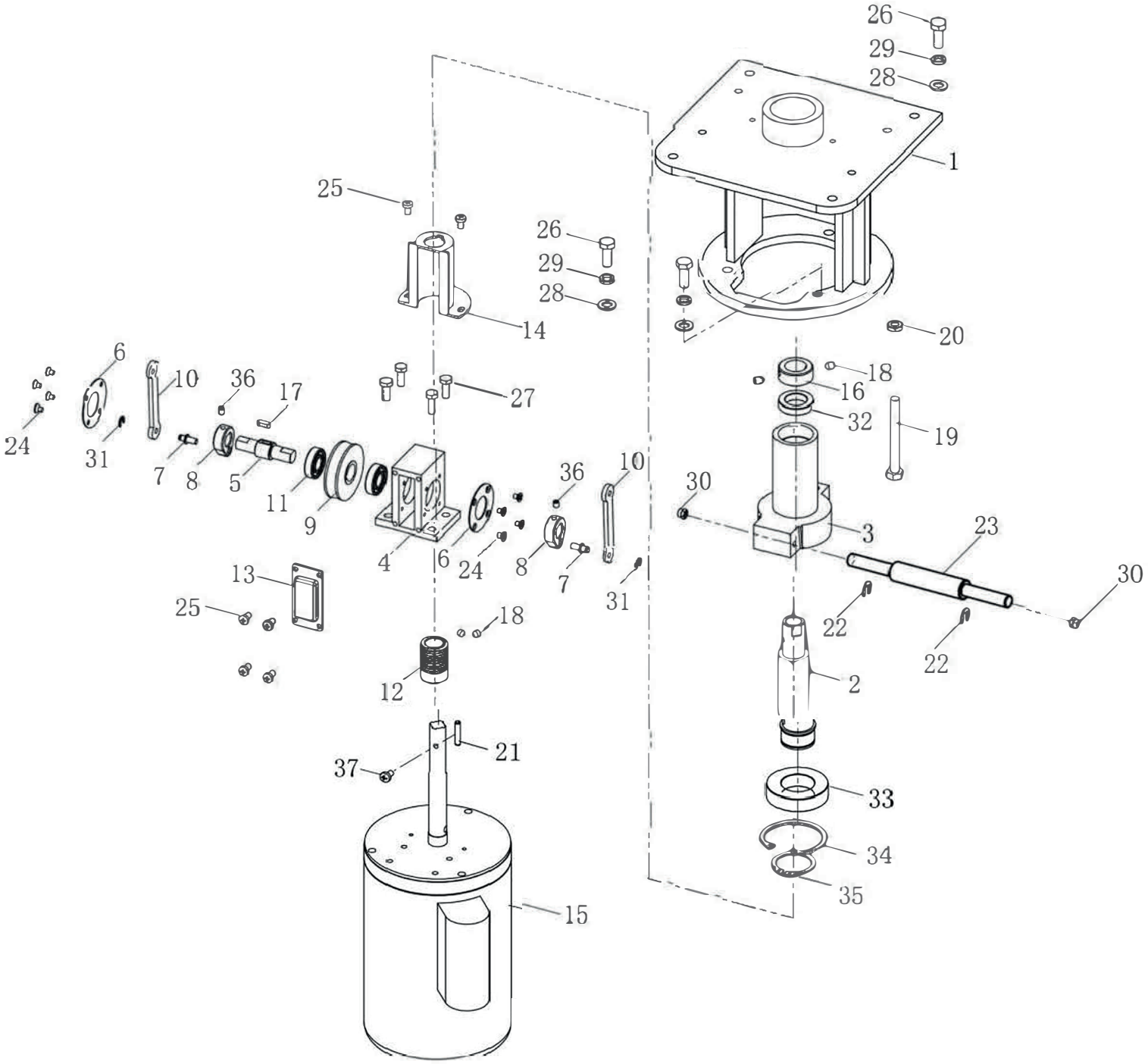
DIAGRAM A FOR AW140BS:



PARTS LIST FOR AW140BS DIAGRAM B:

KEY NO.	DESCRIPTION
1B	Motor base
2B	Spindle bushing with plastic insert
3B	Guide column
4B	Worm wheel frame
5B	Worm wheel spindle
6B	Bearing gland
7B	Crank axle
8B	Crank
9B	Worm wheel
10B	Connection rod
11B	Bearing 6001-2RS
12B	Worm gear
13B	Cover, worm wheel frame
14B	Plastic housing for worm gear
15B	Motor
16B	Bearing cover
17B	Key 4x4x12
18B	Hex set screw with flat M6x6
19B	Hex bolt M8x75

KEY NO.	DESCRIPTION
20B	Hex thin nut M8
21B	Key 5x5x50
22B	E-clip 6mm
23B	Connecting rod axle
24B	Countersunk screw M4x6
25B	Pan head screw M5x8
26B	Hex bolt M8x20
27B	Hex bolt M6x16
28B	Washer 8
29B	Spring washer 8
30B	Self-locking nut M5
31B	E-clip 4mm
32B	Bearing 61804
33B	Bearing 6006
34B	Inner circlip 55mm
35B	External circlip 30mm
36B	Socket head screw M5x6
37B	Pan head screw M4x12


26
29
28
1
25
26
29
28
14
20
6
10
36
17
27
18
16
32
19
24
31
7
8
5
11
9
4
6
24
36
8
7
10
31
30
3
23
30
13
25
18
22
22
12
2
37
21
33
34
35
15



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.

CE UKCA

Axminster Tools, Axminster Devon EX13 5PH
axminstertools.com

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