

AXMINSTER
PROfessional

AW15BDS

Belt & Disc Sander



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SPECIFICATIONS

Motor	230-240V, 50Hz, 250W
Speed (no load)	2980RPM
Belt size	25 x 762mm
Belt speed	14 m/s
Disc size	125mm
Disc speed	2980RPM

IMPORTANT! Safety is the single most important consideration in the operation of this equipment. **The following instructions must be followed at all times.**

Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

There are certain applications for which this tool was designed. We strongly recommend that this tool not be modified and/or used for any other application other than that for which it was designed. If you have any questions about its application, do not use the tool until you have contacted us and we have advised you.

SAFETY SYMBOLS

 **SAFETY ALERT SYMBOL:** Indicates DANGER, WARNING, or CAUTION. This symbol may be used in conjunction with other symbols or pictographs.

 **DANGER** Indicates an imminently hazardous situation, which, if not avoided, could result in death or serious injury.

 **WARNING** Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

 **CAUTION** Indicates a potentially hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE: Shown without Safety Alert Symbol indicates a situation that may result in property damage.

GENERAL POWER TOOL SAFETY WARNINGS

 **WARNING** Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Workplace safety

- a. Keep your working area clean and well lit. Cluttered or dimly lit workspaces can lead to accidents.
- b. Do not operate power tools in areas where explosions could take place, or in which flammable liquids, gases or dust are present. Power tools can create sparks, which can cause dust or fumes to ignite.
- c. Keep children and bystanders away from the power tool when it is being used. Distractions could cause you to lose control over the equipment.

2) Electrical safety

- a. The terminal plug of the tool must fit into the outlet. The plug may not be modified in any way. Do not use an adaptor plug together with grounded power tools. The original plugs and the appropriate outlets reduce the risk of an electrical shock.
- b. Avoid contact with grounded surfaces, such as pipes, radiators, stoves and refrigerators. There is an increased risk of electrical shock, if your body is grounded.
- c. Keep power tools away from rain or wet conditions. Penetration of water into the power tool increases the risk of electrical shock.
- d. Do not use the cable for any purpose other than that for which it was made. Do not use it to carry the tool, hang it up, or to pull the plug out of the outlet. Keep the cable away from heat, oil, sharp corners or parts of the equipment that move. Damaged or entangled cords increase the risk of electrical shock.
- e. When operating the power tool outdoors, only use extension cords that are suitable for outdoor use. The use of an appropriate extension cord reduces the risk of an electrical shock.
- f. If the power tool must be used in a damp environment, use a residual current protective device. The use of such a device reduces the risk of electrical shock.

3) Personal safety

- a. Be attentive, watch what you are doing and use the power tool sensibly. Do not use power tools when you are tired or under the influence of drugs, alcohol or medicines. One moment of inattention while using a power tool can result in serious injury.
- b. Wear personal protective equipment and always wear protective glasses. Wearing personal protective equipment, such as a dust mask, slip-free safety shoes, protective headwear or ear protection, depending on the type and use of a power tool reduces the risk of injury.
- c. Avoid unintentional start-ups. Make sure that the power tool is shut off before it is connected to the power supply, or is carried. If you have your finger on the switch of the tool while carrying it, or have the tool turned on, or connected to a power supply, this behaviour can lead to accidents.
- d. Remove the adjustment aides or the spanners before turning on the power tool. A tool or wrench that is located in a rotating part of the machine, can lead to injuries.
- e. Avoid abnormal posture. Make sure that the operator is standing firmly and can maintain balance. This allows the operator to maintain control over the power tool in unexpected situations.
- f. Wear appropriate clothing. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from the moving parts. Loose clothing, jewellery or long hair can get caught in the moving parts.
- g. If dust vacuums or catching systems can be installed on the tool, make sure that these are correctly connected and assembled. The use of a dust exhaust unit can reduce hazards caused by dust.

4) Use and treatment of the power tool

- a. Do not overtax the tool. Use the appropriate tool for the work that is to be done. With the correct power tool, you can work better and more safely.
- b. Do not use a power tool where the switch is defective. A power tool that cannot be turned on and off is dangerous and must be repaired.
- c. Disconnect the plug from the wall outlet before you make adjustments to the tool, change parts or put the tool away. This precaution prevents inadvertent start-ups of the tool.
- d. Store power tools that are not in use out of reach of children. Do not let anyone use the tool who does not have experience with it, or who has not read these instructions. Power tools can be dangerous when they are used by inexperienced people.
- e. Take good care of your power tools. Make sure that movable parts function properly and do not jam, see that parts which influence the use of the machine are not broken or damaged. Repair damaged parts before operating the tool. Many accidents are caused by poorly maintained power tools.
- f. Keep cutting edges sharp and clean. Properly maintained cutting tools with sharp cutting edges jam less often and are easier to control.
- g. Use power tools, accessories, and equipment according to these instructions. Taking into account the working conditions and the work being performed. The use of power tools other than those intended for the tool itself can lead to dangerous situations.
- h. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Service

- a. Only let qualified service personnel repair your tool and always use original replacement parts. This guarantees that the power tool remains safe to use.

ADDITIONAL SAFETY RULES FOR THE BELT AND DISC SANDING MACHINE

- **WARNING:** Do not use your machine until it is completely assembled and installed according to the instructions.
- If you are not familiar with the operation of the sanding machine, ask the head of the department, your teacher, or any other qualified person.
- **ATTENTION:** This machine has only been designed for sanding wood or similar materials. The sanding of other materials can cause fire, injuries, or damage the product.
- Always wear safety goggles.
- This machine may only be operated indoors.
- **IMPORTANT:** Mount and use the machine on a horizontal surface. A non-horizontal surface can damage the motor.
- If the machine tends to tilt or walk (especially when sanding long and heavy panels), it must be fastened to a solid surface of sufficient carrying force.

- Make sure the sanding belt is running correctly so that it cannot come off the drive pulleys.
- Make sure the sanding belt is not twisted or loose.
- Firmly hold the workpiece when sanding.
- Always use the fence when using the sanding machine in horizontal position.
- Always hold the workpiece firmly to the table when using the sanding disc.
- Always hold the workpiece to the side of the sanding disc running downwards, in order to maintain the workpiece pressed to the table. By using the upward-running side of the sanding disc, the workpiece could be ejected and cause injury to persons.
- Always keep a minimum distance of about 1.5 mm or less between the table or fence and the sanding belt or disc.
- Do not wear gloves. Do not hold the workpiece with a cloth during sanding.
- Use sanding belt or disc of the correct grit corresponding with the wood.
- Never sand workpieces too small to be held safely.
- Avoid awkward hand positions where a sudden slip could cause your hand to touch the sanding belt or disc.
- When sanding a large piece of material, provide an additional support at table height.
- Never sand an unsupported workpiece. Secure the workpiece with the table or the fence. Exceptions are the sanding of curved workpieces on the outside of the sanding disc.
- Always clear the table, fence or sanding belt of scraps or other objects, before turning the machine on.
- Do not perform any layout assembly or set-up work on the table while the sanding machine is in operation.
- Switch the machine off and pull the power plug from the socket when fitting or removing accessories.
- Never leave the working area of the sanding machine while the tool is running, or as long as it has not come to an absolute standstill.

REMAINING HAZARDS

The machine has been built using modern technology and in accordance with recognized safety rules. Some hazards, however, may still remain.

- The grinding wheel poses a danger of injury to fingers and hands by improper feeding or placement of tools.
- Danger of injury from thrown tools due to improper holding or feeding.
- The use of incorrect or damaged mains cables can lead to electrical injuries.
- Although having regarded all considerable rules there may still remain not obvious remaining hazards.
- Minimize remaining hazards by following the instructions in "Safety Rules", "Use only as authorized" and in the entire operating manual.

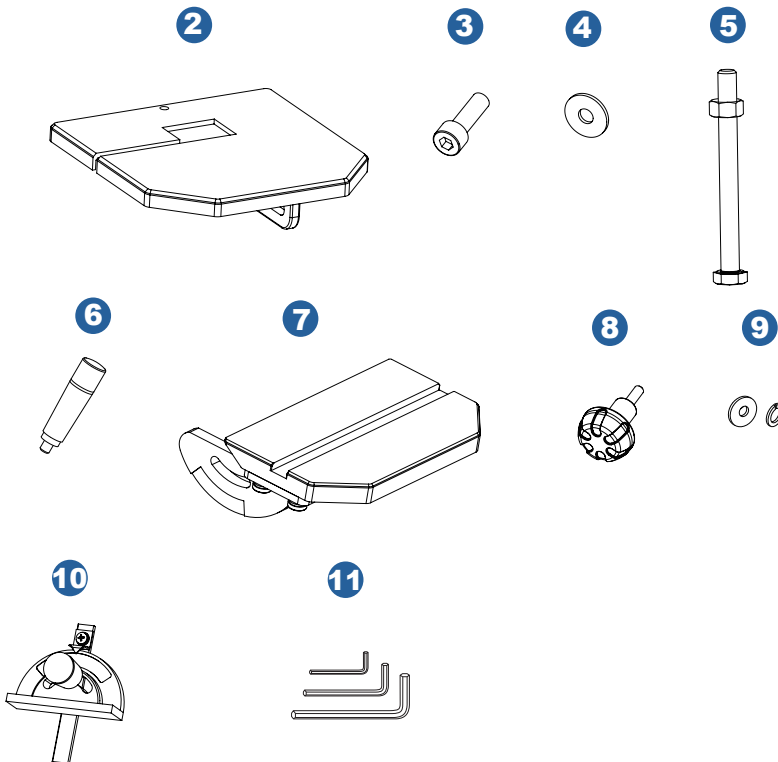


WARNING!

People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

Package contents

No.	Description	Qty.
1	Belt / disc sander (not shown)	1
2	Belt work table	1
3	Inner hex bolt	1
4	Flat washer	1
5	Support rod	1
6	Belt tension handle	1
7	Disc work table	1
8	Disc table locking knob	1
9	Flat washer + Spring washer	2
10	Miter gauge	1
11	Inner hex wrench	3

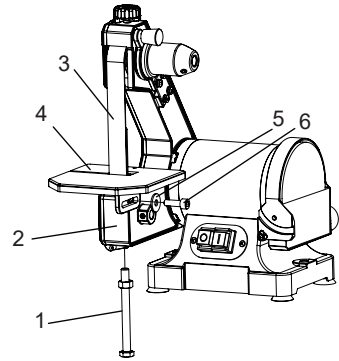


WARNING!

Do not plug in or turn on the tool until it is fully assembled according to the instructions. Failure to follow the safety instructions may result in serious personal injury.

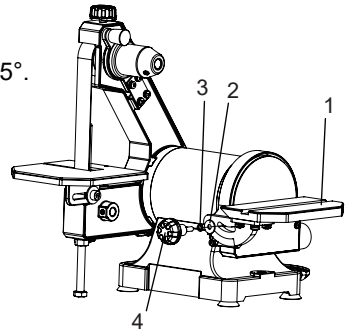
INSTALL SANDING BELT TABLE

1. Install the support rod (1) to the belt frame (2).
2. Pass the sanding belt (3) through the slot on the belt table (4) and position the table on the machine.
3. Secure the belt table into position using the flat washer (5) and inner hex bolt (6).



INSTALL SANDING DISC TABLE

1. Hold the disc table (1) at an upwards angle of 45°. Align the inner extrusions on the disc table with the slot on left side of the sanding disc. Slide inwards then upwards.
2. Align the flat washer (2), spring washer (3) and locking knob (4) with the hole on left side of the sanding disc. Turn clockwise to secure the disc table into place.

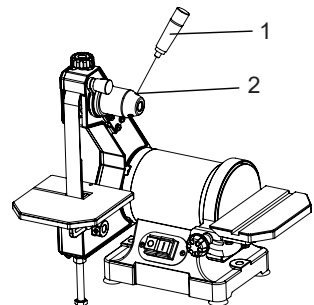


WARNING!

To avoid trapping the workpiece or fingers between the table and the sanding disc, the table edge should be adjusted to a maximum of 1/16 inch from the sanding disc.

INSTALLING TENSION HANDLE

Screw the tension handle (1) into the hole (2) of the hub and lock it.



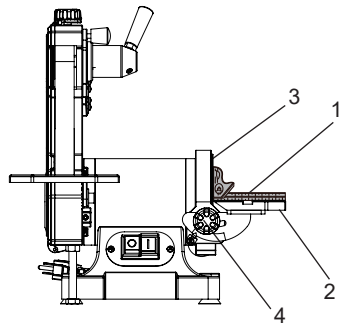
MOUNTING BELT / DISC SANDER TO WORKBENCH

1. Place the sander on a surface that is level but also provides enough room on all sides for the workpiece and for the operator (or bystanders) to not be standing in line with the wood while using the tool.

NOTE: The hardware to mount this sander is NOT supplied with the sander.

ADJUSTING DISC TABLE SQUARE WITH SANDING DISC

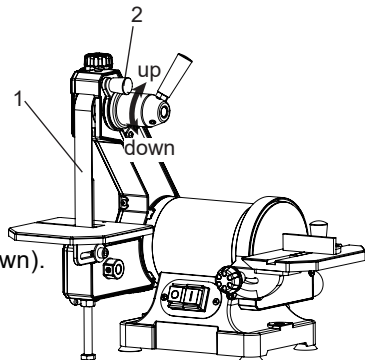
1. Using a combination square (1), place one side of the square on the disc table (2) with the other side against the sanding disc (3), and check to see if the disc table is 90° to the disc.
2. If the disc table surface is not 90° to the disc, loosen the table locking knob (4), adjust table square with disc and tighten the table locking knob (4).
3. Loosen the screw and secure the scale pointer at 0°.



NOTE: The disc table (2) can be tilted from 0° to 45° by loosening the table locking knob (4). Tilt the disc table (2) to the desired angle. Tighten table locking knob (4).

TO PROPERLY TRACK THE SANDING BELT

1. Plug in the sander.
2. Turn power switch ON, then immediately OFF, noting whether the belt (1) tends to slide off its track, and to which side of the sander.
3. If the sanding belt does not slide to either side, it is tracking properly.
4. Viewed from the switch end, if the sanding belt runs toward the disc side, slightly turn the tracking knob (2) counterclockwise (down).
5. Viewed from the switch end, if the sanding belt runs away from the disc side, slightly turn the tracking knob (2) clockwise (up).
6. Turn power switch ON, then immediately OFF again, again taking note of any belt movement.

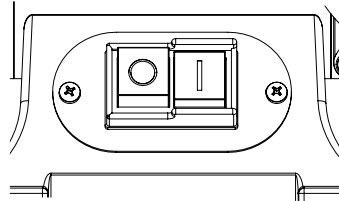


ON/OFF SWITCH

The ON/OFF power switch is located on the front of the sander.

1. Push the GREEN button (I) to turn the machine on.
2. Push the RED button (O) to turn the machine off.

- If a failure occurs in the power supply the machine will stop automatically. It will be necessary to push the GREEN button again to continue work.

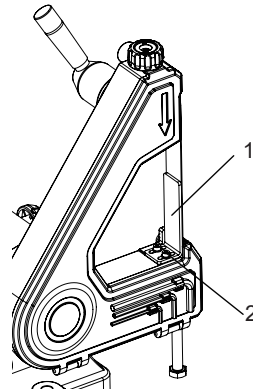


BELT SANDER PLATEN

The belt platen (1) is used to properly support the workpiece while sanding. The platen (1) is constructed of heavy steel to provide adequate support.

The platen (1) should be adjusted so it is almost touching the back of the abrasive belt. Loosen the socket head cap screw (2) and adjust the platen (1) to the desired position. Tighten the screw (2) to secure the platen (1).

The platen can be removed for operations such as stripping, contour sanding, polishing or other special operations. To remove the platen, remove the socket head cap screw and washer.

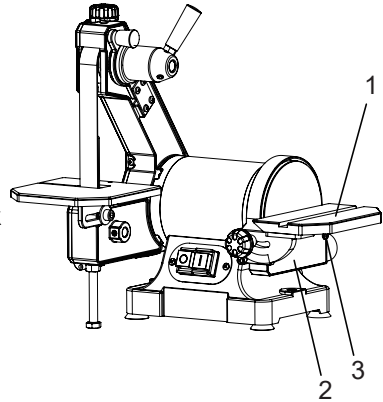


NOTE: Be sure to re-install the platen to perform operations where support of the belt is required

REPLACING SANDING DISC

A sanding disc is pre-mounted at the factory. Use only sanding discs that measures 5 in. (125 mm) in diameter.

1. Remove the disc worktable (1) and then remove the disc cover (2) by removing two screws (3).
2. Remove the existing disc, and change to the new sanding disc
3. Reinstall the disc cover (2), tighten two screws (3) and place sanding table (1) back on unit.

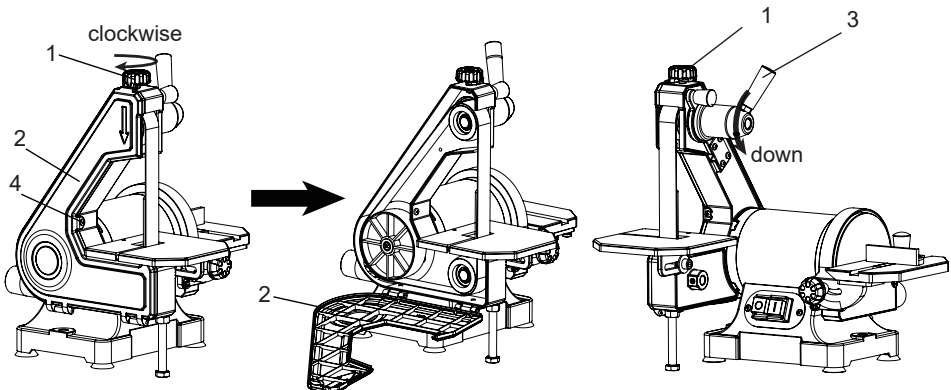


REPLACING SANDING BELT

1. Loosen the fixing screw (4) of the belt cover. **Note:** Do not remove the screw.
2. Turn the knob (1) clockwise to open the belt cover (2).
3. Release belt tension by pulling down on tension handle (3). Slide old belt off the drive and tracking wheels.

NOTE: The sanding belt can be removed directly without removing the belt work table.

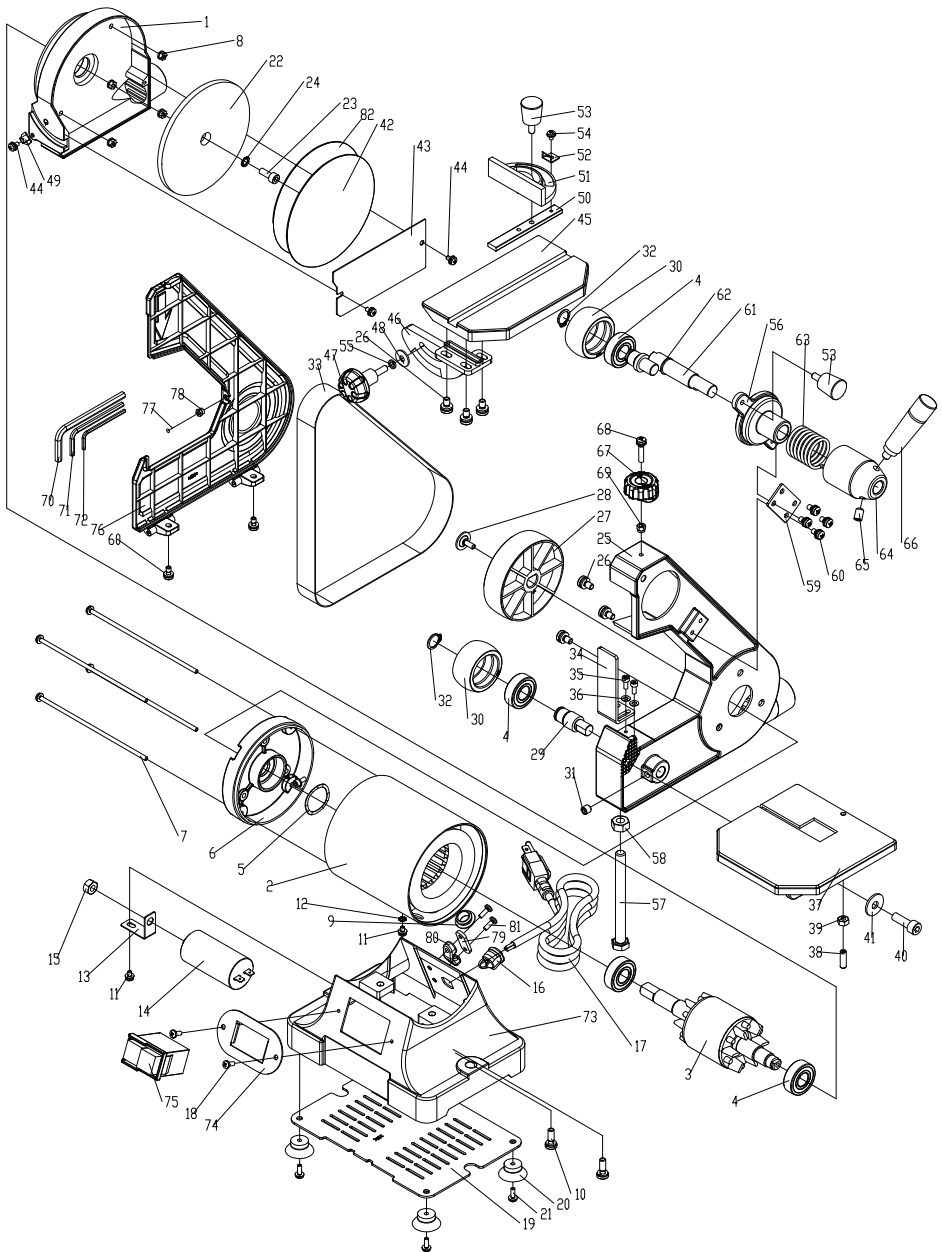
4. Install the new belt around the wheels.
5. Lift the belt cover and turn the knob (1) counterclockwise to fix it.
6. Tighten the fixing screw (4).
7. Start the sander and check the belt tracking before sanding operations (See "TO PROPERLY TRACK THE SANDING BELT").



WARNING!

To avoid injury from an accidental start, turn the switch OFF and always remove the plug from the power source before making any adjustments.

PROBLEM	PROBLEM CAUSE	SUGGESTED CORRECTIVE ACTION
Motor will not start—fuses or circuit breakers tripping / blowing	1. Short circuit in line, cord or plug. 2. Short circuit in motor or loose connections 3. Incorrect fuses or circuit breakers in power line.	1. Inspect cord or plug for damaged insulation and shorted wires. 2. Inspect all connections on motor for loose or shorted terminals and/or worn insulation. 3. Install correct fuses or circuit breakers or switch tool to an appropriately sized circuit.
Motor overheats	1. Motor overloaded 2. Extension cord too long with an insufficient gauge.	1. Reduce load on motor (pressure on object being sanded) 2. Utilize an extension cord of appropriate gauge and length or plug tool directly into outlet.
Sander does not turn on	1. Not plugged in to an electrical outlet 2. Defective power switch 3. Motor, capacitor, or wiring problem	1. Connect the unit to an outlet. 2. Replace the switch. 3. Contact customer service.
Sanding surface clogs quickly	1. Too much pressure against belt/disc 2. Sanding softwood.	1. Reduce pressure on workpiece while sanding. 2. Use different stock/sanding accessories, or accept that this will happen and plan on cleaning or replacing belts/discs frequently.
Deep sanding grooves or scars in workpiece	1. Sanding belt/disc grit is too coarse for the desired finish. 2. Workpiece sanded across the grain. 3. Too much sanding force on workpiece. 4. Workpiece held still against belt-disc for too long.	1. Use a finer-grit sanding accessory. 2. Sand with the grain of the wood. 3. Reduce pressure on workpiece while sanding. 4. Keep workpiece moving while sanding on the sanding accessory.



Parts List

NO.	Description	QTY	NO.	Description	QTY
1	Disc cover end cap	1	42	Disc sanding paper	1
2	Stator	1	43	Disc cap	1
3	Rotor	1	44	Phillips screw with flat and spring washer M4X8	3
4	Bearing 6202-2RZ	4	45	Disc work table	1
5	Wave spring D35	1	46	Table support	1
6	End cap	1	47	Table lock knob	1
7	Phillips screw with flat washer M4×153	4	48	Big flat washer D6	1
8	Hexagon flagne nut M4	4	49	Pointer 1	1
9	Cord bushing	1	50	Miter bar	1
10	Phillips screw with spring washer M6×18	2	51	Work table miter gauge	1
11	Phillips screw with flat and spring washer M4×7	2	52	Pointer 11	1
12	External teeht lock washer D4	1	53	Little knob	2
13	Capacitor support	1	54	Phillips screw with flat washer M4X6	1
14	Capacitor	1	55	Spring washer D6	1
15	Type I nut M8	1	56	Belt driven support seat	1
16	Core clip 6P4	1	57	Hexagon bolt M10×110	1
17	Power cord with plug	1	58	Typer I nut M10	1
18	Phillips screw M4×10	2	59	Belt adjustment plate	1
19	Base plate	1	60	Phillips screw with flat and spring washer M5×10	6
20	Rubber feet	4	61	Driven exxectric shafte assembly	1
21	Phillips screw with flat washer M4×12	4	62	Circlip for shaft D16	1
22	Disc	1	63	Tension spring	1
23	Hexagon socket cap screws M6×16	1	64	Tension handle seat	1
24	External teeht lock washer D6	1	65	Hexagon recessed end bolt M8×12	1
25	Belt support	1	66	Belt tension knob	1
26	Phillips screw with flat and spring washer M6x12	6	67	insert lock knob	1
27	Driving wheel	1	68	Phillips screw with flat and spring washer M5X25	1
28	Phillips screw with special-shaped nut M5X16	1	69	Type I non-metal hexoagon lock knob M5	1
29	Driven shaft	1	70	Allen wrench 6	1
30	Driven pulley	2	71	Allen wrench 4	1
31	Hexagon concave end screw M8×8	1	72	Allen wrench 3	1
32	Circlip for shaft D15	2	73	Base	1
33	Belt	1	74	NVR switch base plate	1
34	Belt limiting plate	1	75	NVR switch	1
35	Hexagon socket cap screws M4×10	2	76	Support cover plate assembly	1
36	Flat washer D4	2	77	Phillips screw with flat washer	1
37	Belt work table	1	78	Type I non-metal hexoagon lock knob M4	1
38	Hexagon flat cap screws M4×10	1	79	Pressure subplate	1
39	Type I nut M6	1	80	Pressure plate	1
40	Hexagon socket cap screws M8x25	1	81	Phillips screw M4x12	2
41	Big flat washer D8	1	82	Velcro	1



Axminster Tool Centre Ltd



EC DECLARATION OF CONFORMITY 'original'

Product model: Axminster Workshop AW15BDS Belt and Disc 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:

EN ISO 12100:2010, EN 62841-1:2015

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, 13/1/25

(name, function): Andrew Parkhouse, Supply Chain Director

Signature:



Axminster Tool Centre Ltd



UK DECLARATION OF CONFORMITY 'original'

Product model: Axminster Workshop AW15BDS Belt and Disc 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 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:

EN ISO 12100:2010, EN 62841-1:2015

Additional information:

Name and address of person authorised to compile the technical file: Axminster Tool Centre Ltd, Unit 10 Weycroft Avenue, Axminster, Devon EX13 5PH, United Kingdom
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, 13/1/25

(name, function): Andrew Parkhouse, Supply Chain Director

Signature:



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