

AW18BDS

Belt Disc Sander



TABLE OF CONTENTS

Table of contents	2
Safety guidelines	3
Package contents	9
Key parts diagram	10
Assembly instructions	11
Operating instructions	13
Maintenance	15
Troubleshooting	17
Exploded view	18
Part list	19
Conformity Certificates	20

SPECIFICATIONS

Motor	230-240V/50Hz, 550W
Speed (no load)	2980 RPM
Belt size	25x1067mm
Belt speed	14m/s
Disc size	200mm
Disc speed	2980RPM
Dust port size	38.5mm

SAFETY GUIDELINES - DEFINITIONS

- Always wear safety goggles or safety glasses with side shields.
- Always wear respiratory and hearing protection.
- To reduce the risk of injury, user and all bystanders must read and understand instruction manual before using this product.
- Failure to keep your hands away from the moving part and cutting surface will result in serious personal injury.
- No children or pregnant women should enter the work area where the paint sanding is being done until all clean up is completed.
- A dust mask or respirator should be worn by all persons entering the work area. The filter should be replaced daily or whenever the wearer has difficulty breathing.
- NO EATING, DRINKING or SMOKING should be done in the work area to prevent ingesting contaminated paint particles. Workers should wash and clean up BEFORE eating, drinking or smoking. Articles of food, drink, or smoking should not be left in the work area where dust would settle on them.
- Paint should be removed in such a manner as to minimize the amount of dust generated.
- Areas where paint removal is occurring should be sealed with plastic sheeting of 4 mil thickness.
- Sanding should be done in a manner to reduce tracking of paint dust outside the work area.
- All surfaces in the work area should be vacuumed and thoroughly cleaned daily for the duration of the sanding project. Vacuum filter bags should be changed frequently.
- Plastic drop cloths should be gathered up and disposed of along with any dust chips or other removal debris. They should be placed in sealed refuse receptacles and disposed of through regular trash pick-up procedures. During clean up, children and pregnant women should be kept away from the immediate work area.
- All toys, washable furniture and utensils used by children should be washed thoroughly before being used again.

WARNING!

Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

POWER TOOL SAFETY

1. READ and become familiar with the entire Instruction Manual. LEARN the tool's application, limitations and possible hazards.
2. KEEP GUARDS IN PLACE and in working order.
3. REMOVE ADJUSTING KEYS AND WRENCHES. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning ON.
4. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
5. DO NOT USE IN DANGEROUS ENVIRONMENTS. Do not use power tools in damp locations, or expose them to rain or snow. Keep work area well lit.
6. KEEP CHILDREN AWAY. All visitors and bystanders should be kept a safe distance from work area.
7. MAKE WORKSHOP CHILD PROOF with padlocks, master switches or by removing starter keys.
8. DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was designed.
9. USE THE RIGHT TOOL. Do not force the tool or an attachment to do a job for which it was not designed.
10. USE PROPER EXTENSION CORDS. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will result in a drop in line voltage and in loss of power which will cause the tool to overheat. The table on page 8 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
11. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
12. ALWAYS WEAR EYE PROTECTION. Any power tool can throw foreign objects into the eyes and could cause permanent eye damage. ALWAYS wear Safety Goggles (not glasses) that comply with ANSI Safety standard Z87.1. Everyday eyeglasses have only impact-resistant lenses. They ARE NOT safety glasses. NOTE: Glasses or goggles not in compliance with ANSI Z87.1 could seriously injure you when they break.
13. WEAR A FACE MASK OR DUST MASK. Sanding operation produces dust.
14. SECURE WORK. Use clamps or a vise to hold work when practical. It is safer than using your hand and it frees both hands to operate the tool.
15. DISCONNECT TOOLS FROM POWER SOURCE before servicing, and when changing accessories such as blades, bits and cutters.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in the OFF position before plugging the tool in.

17. **USE RECOMMENDED ACCESSORIES.** Consult this Instruction Manual for recommended accessories. The use of improper accessories may cause risk of injury to yourself or others.
18. **NEVER STAND ON THE TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. **CHECK FOR DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. **NEVER LEAVE THE TOOL RUNNING UNATTENDED. TURN THE POWER “OFF”.** Do not walk away from a running tool until the blade comes to a complete stop and the tool is unplugged from the power source.
21. **DO NOT OVERREACH.** Keep proper footing and balance at all times.
22. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
23. **DO NOT** use power tool in presence of flammable liquids or gases.
24. **DO NOT** operate the tool if you are under the influence of any drugs, alcohol or medication that could affect your ability to use the tool properly.
25. Dust generated from certain materials can be hazardous to your health. Always operate saw in well-ventilated area and provide for proper dust removal.
26. **WEAR HEARING PROTECTION** to reduce the risk of induced hearing loss.

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.

POWER TOOL SAFETY

1. USE sander on horizontal surfaces only. Operating the sander when mounted on non-horizontal surfaces might result in motor damage.
2. TO STOP it from tipping over or moving when in use, the sander must be securely fastened to a bench top or supporting surface.
3. PLACE the sander so neither the user nor bystanders are forced to stand in line with the abrasive belt or disc.
4. MAKE SURE the sanding belt is installed in the correct direction. See directional arrow on back of belt.
5. ALWAYS have the tracking adjusted properly so the belt does not run off the pulleys.
6. DO NOT USE sanding belts or discs that are damaged, torn or loose. Use only correct size sanding belt and disc. Narrower belts uncover parts that could trap fingers.
7. MAKE SURE there are no nails or foreign objects in the part of the workpiece to be sanded.
8. ALWAYS HOLD the workpiece firmly when sanding. Keep hands away from sanding belt or disc. Sand only one workpiece at a time.
9. ALWAYS HOLD the workpiece firmly on the table when using the disc sander and when using the belt sander.
10. ALWAYS SAND ON THE DOWNWARD SIDE of the sanding disc when using the disc sander. Sanding on the upward side of the disc could cause the workpiece to fly out of position, resulting in injury.
11. ALWAYS maintain a minimum clearance of 1/16 in. (1.6 mm) or less between the table or backstop and the sanding belt or disc.
12. DO NOT sand pieces of material that are too small to be safely supported.
13. KEEP fingers away from where the belt goes into the dust trap.
14. WHEN sanding a large workpiece, provide additional support at table height.

IMPORTANT INFORMATION-Electrical

GROUNDING INSTRUCTIONS

All grounded, cord-connected machines: In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with an electric cord having an equipment grounding conductor and a grounding plug.

DANGER!

DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.

THIS MACHINE MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided—if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded.

Safety Guidelines

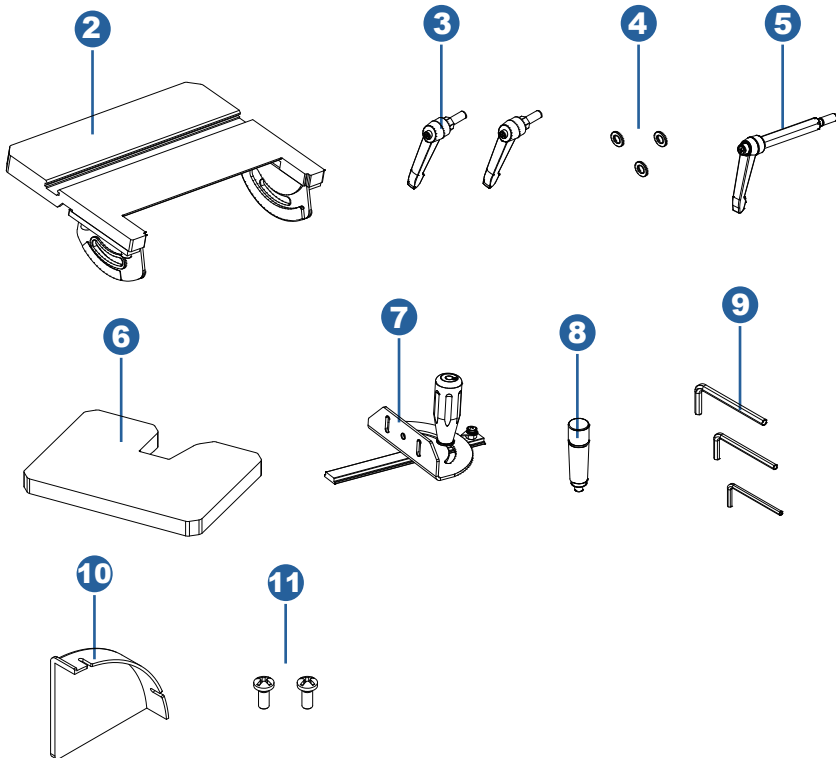
Use only 3-wire extension cords that have 3-pronged grounding type plugs and matching 3-conductor receptacles that accept the machine's plug, as shown in Fig. A. Repair or replace damaged or worn cord immediately.

WARNING!

In all cases, make certain the receptacle in question is properly grounded. If you are not sure, have a electrician check the receptacle.

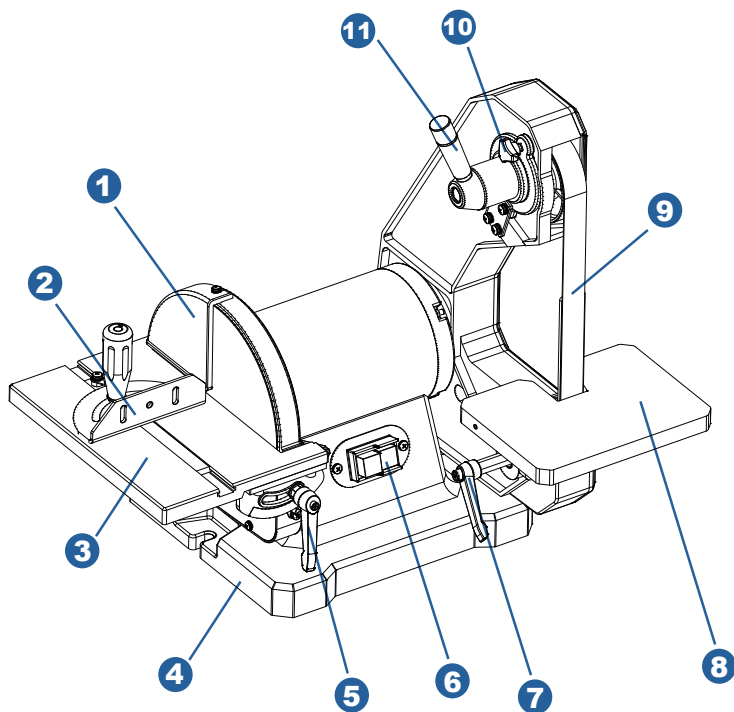
Package contents

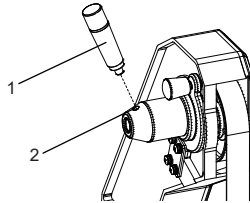
No.	Description	Qty.
1	Belt / disc sander (not shown)	1
2	Disc worktable	1
3	Disc table handle	2
4	Flat washer D8	3
5	Belt table handle	1
6	Belt worktable	1
7	Miter gauge assy	1
8	Belt tension handle	1
9	Inner hex wrench	3
10	Sanding disc cover	1
11	Philips screw	2



Key Parts Diagram

No.	Description
1	8 in. diameter sanding disc
2	Miter gauge assy
3	Disc worktable
4	Base
5	Disc table handle
6	On / Off switch
7	Belt table handle
8	Belt worktable
9	1 in. width / 42 in. length sanding belt
10	Belt tracking knob
11	Belt tension handle

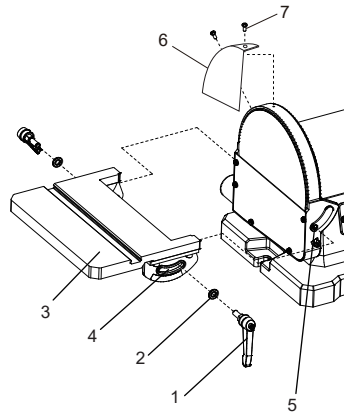




MOUNTING WORKTABLE ON DISC

The larger worktable is used with the sanding disc. It should be used to support workpieces in all sanding operations except inside curve applications.

1. Locate worktable handles (1) and washers (2) in parts bag.
2. Place the worktable (3) onto the sander frame, aligning the semi-circle slot (4) with the threaded hole (5).
3. Place a washer (2) on threaded shaft of each worktable handle (1), insert through semi-circular slot (4), and tighten into threaded hole (5). Repeat on other side of table.
4. Adjust worktable to level or any angle between 0° and 45° for sanding.
5. Mount the sanding disc cover (6) onto the metal frame that surrounds the sanding disc with the two Phillips Screws (7).



CAUTION

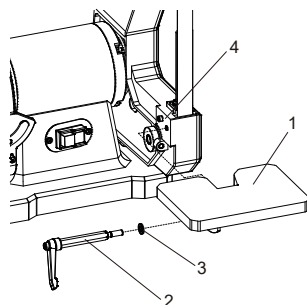
To avoid trapping the workpiece or fingers between the worktable and sanding disc, the worktable edge should be positioned a maximum of 1/16 in. (1.6 mm) from sanding disc plate.

Always sand on the downward, right side of the rotating disc.

MOUNTING WORKTABLE ON BELT

1. Attach the belt work table (1) to the sanding frame using a handle (2) and flat washer (3) as shown.

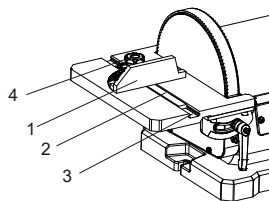
NOTE: Ensure the locating pin (4) passes through the table bracket and the registration disc of the bracket is facing inwards.



MITER GAUGE

A miter gauge (1) is supplied with your sander and can be used with the sanding table. The miter gauge body can be adjusted from 0° to 60° right or left for angle or miter sanding.

1. Insert the miter gauge bar (2) into one end of the miter slot (3) in the disc table.
2. Loosen lock knob (4) and then rotate miter gauge body to the desired angle.
3. Tighten lock knob (4).



DUST COLLECTION

The use of a dust collection system with the sander is strongly recommended. It will maintain shop cleanliness, and help prevent possible health hazards caused by wood dust.

The sander has two dust ports. Slide the hose of your dust collector over the o and secure with a hose clamp.

Recommended (not included):

Search **BUCKTOOL Y-fitting 4" to 1-3/8"(O.D.) Reducer**

at AMAZON.COM or <https://www.bucktool.com>

You can use it to attach two of your tools including your table saw, jointer, plan bandsaw, disc sander, belt sander, drum sander, and more.

NOTE: Dryer vent hoses are not acceptable for this purpose.

⚠ CAUTION

Always lock the switch off when the grinder is not in use. Remove the key and keep it in a safe place. In the event of a power failure, blown fuse, or tripped circuit breaker, turn the switch off and remove the key, preventing an accidental startup when the power comes on.

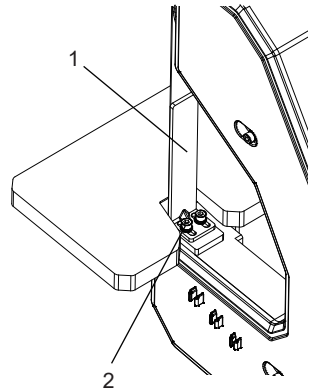
BELT PLATEN

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).

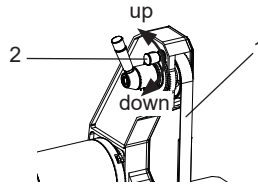
The platen can be removed for operations such as stripping, contour sanding, polishing or other special operations. To remove the platen, remove the socket head cap screw and washer.

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



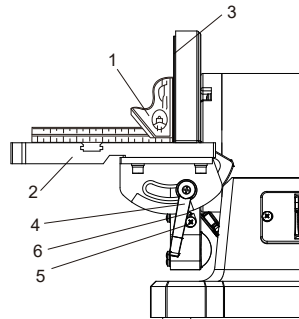
TO PROPERLY TRACK THE SANDING BELT

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 (up).
5. Viewed from the switch end, if the sanding belt runs away from the disc side, slightly turn the tracking knob (2) clockwise (down).
6. Turn power switch ON, then immediately OFF again, again taking note of any belt movement.



ADJUSTING DISC TABLE SQUARE WITH SANDING DISC

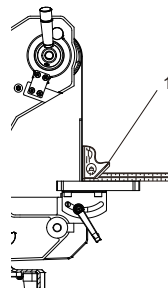
1. Using a combination square (1), place one side of the square on the disc table (2) with the other side against the sanding disc (3), and check to see if the disc table is 90° to the disc.
2. If the disc table surface is not 90° to the disc, loosen the table lock knob (4), adjust table square with disc and tighten the table lock knob (4).
3. Loosen the screw (5) and secure the scale pointer (6) at 0°.



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

ADJUSTING BELT TABLE SQUARE WITH SANDING BELT

1. Using a combination square (1), place one side of the square on the belt table (2) with the other side against the sanding belt (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 lock knob (4), adjust table square with belt and tighten the table lock knob (4).



⚠ WARNING!

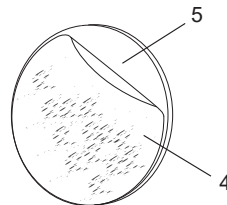
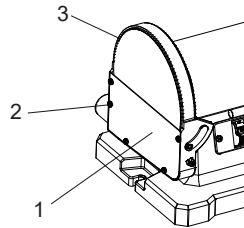
For your safety, turn switch OFF and remove the power cord from the electrical outlet before adjusting or performing maintenance on your sander.

To avoid electric shock or fire, all repairs to the electrical components should be done by a qualified service technician. Before each use check for damaged, missing, or worn parts; check for alignment of moving parts, binding, improper mounting, or any other conditions that may affect the operation. Should any of these conditions exist, do not use the sander until properly repaired or parts are replaced.

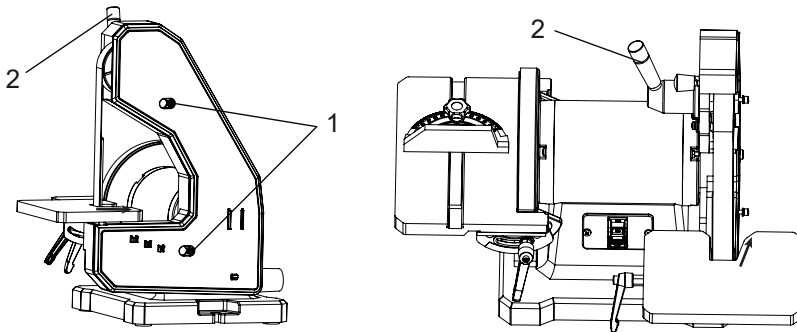
REPLACING SANDING DISC

A sanding disc is pre-mounted at the factory. Use only sanding discs that measures 8 in. (200 mm) in diameter.

1. Remove the disc cover and worktable and then remove the disc cover (1) by removing four screws (2).
2. Remove the existing disc, and clean any residue left on disc plate (3). Only use mineral spirits to remove this residue.
3. Peel the plastic (4) back from new sanding disc (5) and carefully press sanding disc firmly in position around the sanding plate. Make sure the disc is centered on the plate.
4. Reinstall the disc cover (1), tighten four screws (2) and place sanding table back on unit.



REPLACING SANDING BELT



1. Remove the belt cover (2) by loosen the inner hex nut (1).

NOTE: No need remove the inner hex nut.

2. Release belt tension by pulling down on tension handle (2). Slide old belt off the drive and tracking wheels.

NOTE: The sanding belt can be removed directly along the inner boundary of the belt work table without removing the belt work table

3. Install the new belt around the wheels.
6. Install the belt cover and the two inner hex nut.
7. Start the sander and check the belt tracking before sanding operations
(See "TO PROPERLY TRACK THE SANDING BELT").

LUBRICATION

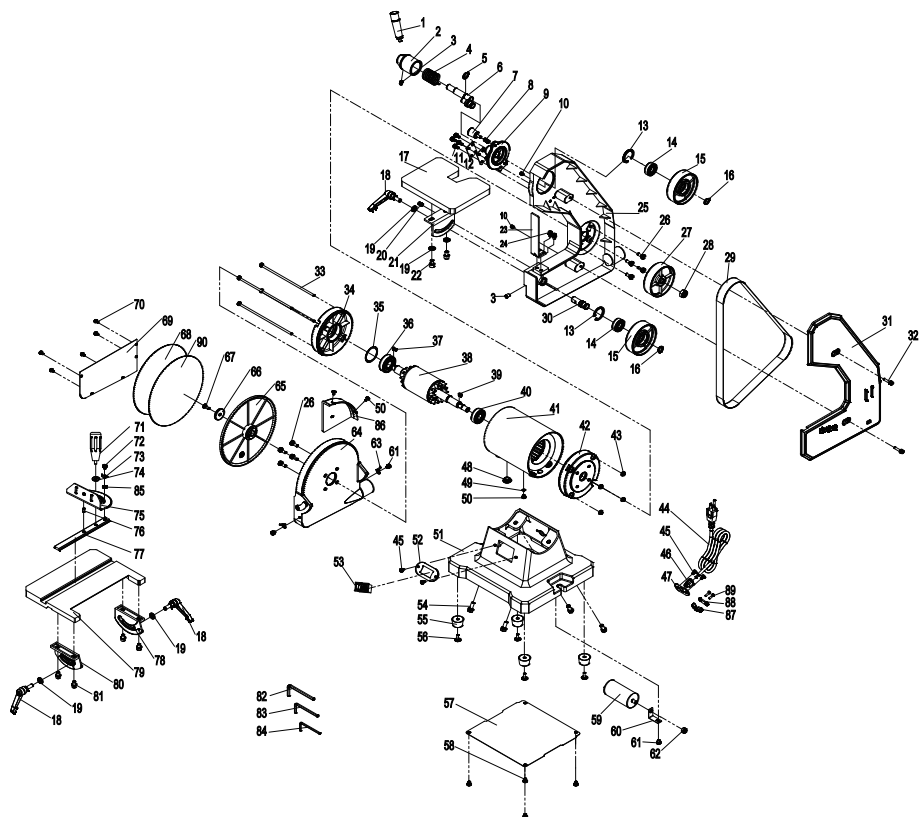
Ball bearings are grease packed at the factory and require no further lubrication. Use a paste wax to ensure smooth operation on all moving table parts. Do not use any lubrication on the belt plate as this might end up on the wheels, causing them to slip.

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.

Trouble	Probable Cause	Remedy
Sander will not start.	Not connected to power source.	Connect to power source.
	Branch circuit fuse is blown or the circuit breaker is tripped.	Determine reason for blown fuse/ tripped breaker (such as short circuit or motor overload). Correct reason for fault. Replace fuse/ reset circuit breaker.
	Voltage is too low.	Check power source for proper voltage.
	Switch is defective.	Replace switch.
	Motor failure.	Replace motor.
Motor stalls easily.	Low voltage.	Check power source for proper voltage and correct if necessary.
Abrasive disc separates from aluminum disc.	Improper bond.	Clean residual adhesive from aluminum disc, and re-apply adhesive-backed abrasive disc.
Abrasive belt will not track correctly.	Belt not centered on wheels.	Readjust tracking.
	Belt stretched unevenly.	Replace abrasive belt.
	Belt is jointed improperly.	Check the belt for an irregular seam or shape. Replace if needed.
	Wheel is worn.	Replace affected wheel.
	Worn bearings.	Check all the bearings for excessive heat or loose shafts. Replace if necessary.
Abrasive belt slips or stalls when pressure is applied.	Abrasive belt tension inadequate; spring in tension mechanism is worn.	Replace spring.
	Excessive pressure being applied to platen.	Reduce pressure on abrasive belt (and platen).
Frequent replacement of abrasive belt or disc.	Too much pressure being applied to workpiece.	Allow the belt to do the cutting. Excessive pressure only dulls the grit and removes it from the cloth.
	Full width of belt or disc not being used.	Stroke across abrasive belt using full width of belt surface.
	Incorrect abrasive material or grit size.	Check with your abrasives supplier for recommendations on the type and coarseness of the abrasives required for your particular workpieces.

Exploded View



NO.	Descripton	Qty.	NO.	Descripton	Qty.
1	Belt tension knob	1	46	Cord clip-6P4	1
2	Tension knob base	1	47	Cord clip plate	1
3	Hex screw M8×12	2	48	Cord bushing	1
4	Belt tension spring	1	49	External teeth lock washer D4	1
5	Circlip for shaft D16	1	50	Phillips screw with flat and spring washer M5×8	3
6	Driven eccentric shaft assembly	1	51	Base	1
7	Small knob	1	52	Switch plate	1
8	Housing handle spring	1	53	NVR switch	1
9	Belt driven support seat	1	54	Phillips bolt with spring washer M8×20	4
10	Type I non-metal lock nut M5	2	55	Rubber feet	4
11	Phillips screw with flat and spring washer M5X12	4	56	Phillips screw with flat washer M5×16	4
12	Sanding belt adjustment plate	2	57	Base baseboard	1
13	Circlip for shaft D35	2	58	Phillips screw with flat washer M5×8	4
14	Bearing 6202-2RZ	2	59	Capacitor	1
15	Driven pulley	2	60	Capacitor support	1
16	Circlip for shaft D15	2	61	Phillips screw with spring washer M5x8	3
17	Belt work table	1	62	Type I nut M8	1
18	Loking knob assembly	3	63	Pointer	2
19	Flat washer D8	5	64	Disc guard	1
20	Positioning bolt	1	65	Disc plate	1
21	Belt table support	1	66	Disc pad	1
22	Hexagon socket cap screw M8×12	2	67	Phillips screw M6×16-LH	1
23	Belt limiting plate	1	68	Sanding paper	1
24	Hexagon socket cap screw with flat and spring washer M5×10	2	69	Disc guard board	1
25	Belt guard base plate	1	70	Phillips screw with flat washer M4x8	5
26	Phillips screw with spring washer M6X18	8	71	Miter gauge knob	1
27	Driving wheel	1	72	Phillips screw with flat and spring washer M5x12	1
28	Hex nut M12 right	1	73	Pointer	1
29	Belt	1	74	Big flat washer D6	1
30	Driven shaft	1	75	Miter gauge	1
31	Belt guard cover	1	76	Pin	1
32	Hexagon socket cap screw with flat and spring washer M5×25	2	77	Miter bar	1
33	Phillips screw with flat washer M5X196	4	78	Disc work table left support	1
34	Left end cap	1	79	Disc wor table	1
35	Wave spring	1	80	Disc work table right support	1
36	Bearing 6204-2RZ	1	81	Hexagon socket cap screw with spring washer M6×12	4
37	Key 5×5×12	1	82	Allen wrench 6	1
38	Rotor	1	83	Allen wrench 5	1
39	Key 5×5×10	1	84	Allen wrench 4	1
40	Bearing 6203-2RZ	1	85	Type I hex nut M6	1
41	Rotor	1	86	Disc safety guard	1
42	Right end cap	1	87	Pressure plate	1
43	Hex. Flange nut M5	4	88	Pressure subplate	1
44	Power cord with plug	1	89	Phillips screw M4X16	2
45	Phillips screw M5×8	4	90	Velcro	1



Axminster Tool Centre Ltd



EC DECLARATION OF CONFORMITY 'original'

Product model: Axminster Workshop AW18BDS 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 AW18BDS 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