

AXMINSTER

WORKSHOP

Code 107680

Original Instructions

AW200BDS

Belt & Disc Sander



AT: 22/04/2022
BOOK VERSION: 06

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EU DECLARATION OF CONFORMITY

Cert No: BD4800 Axminster Tool Centre Ltd Axminster Devon EX13 5PH UK axminstertools.com declares that the machinery described:- <table><tr><td>Type</td><td>Belt & Disc Sander</td></tr><tr><td>Model</td><td>AW200BDS</td></tr></table> Signed  Andrew Parkhouse Operations Director Date: 16/07/2018	Type	Belt & Disc Sander	Model	AW200BDS	EU Declaration of Conformity This machine complies with the following directives: <table><tr><td>2006/42/EC</td><td>EN 61000-3-3:2013+A1</td></tr><tr><td>2014/30/EU</td><td>EN IEC 61000-3-2:2019</td></tr><tr><td>EN 62841-1:2015</td><td>EN 55014-2:2015</td></tr><tr><td>EN ISO 12100:2010</td><td>EN 55014-1:2017+A11</td></tr></table> and conforms to the machinery example for which the EC Type-Examination Certificate No AM 50413122, AE 50495456 has been issued by Wendeng Allwin Motors Manufacturing Co., Ltd. at: No. 15 Sichan Road Wendeng, 264400 Shandong, China and complies with the relevant essential health and safety requirements.	2006/42/EC	EN 61000-3-3:2013+A1	2014/30/EU	EN IEC 61000-3-2:2019	EN 62841-1:2015	EN 55014-2:2015	EN ISO 12100:2010	EN 55014-1:2017+A11
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EN 62841-1:2015	EN 55014-2:2015												
EN ISO 12100:2010	EN 55014-1:2017+A11												

The symbols below advise the correct safety procedures when using this machine.



Fully read manual
and safety instructions
before use



Ear protection
should be worn



Eye protection
should be worn



Dust mask
should be worn



HAZARD
Motor gets hot

WHAT'S INCLUDED

Quantity	Item	Part	Model Number
			AW200BDS
1	Belt & Disc Sander	A	
1	Linisher Belt Table	B	
1	Sanding Disc Table	C	
1	Dust Extraction Outlet	D	
1	Extraction Outlet Lever Clamp	E	
1	Mitre Fence	F	
2	Disc Table Lift & Shift Handles & Washers	G	
1	Lift & Shift Handle & Washer for Linisher Table	H	
1	Hex Key	I	
1	Instruction Manual		



NOTE: Please read the Instruction Manual prior to using your new machine; as well as the operating procedures for your new machine, there are numerous hints and tips to help you to use the machine safely and to maintain its efficiency and prolong its life.

Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.



INTRODUCTION

This is a neatly designed combined 100mm belt and 200mm disc sander. Unusually, both functions are driven directly from the motor spindle, with no belts to worry about. Both functions have a decent size worktable which pivots from 0° to - 45°, the disc table incorporating a mitre fence running in a slot for bevel and compound angle sanding.

The sanding platter also moves from vertical to horizontal, suiting the task in hand. The belt has close fitting guarding

which helps this machine achieve a high level of dust extraction. There is a powered fan in the dust outlet port, which helps produce an airflow around both the belt and disc. When connected to a simple vacuum extractor almost total dust extraction can be achieved. The chassis is heavily constructed to support the tables and belt arm, a cast iron base absorbs vibration and has locating holes for securing this sander to a workbench if you so wish.

PACKAGING



HAVING UNPACKED YOUR SANDER, PLEASE DISPOSE OF THE PACKAGING PROPERLY. THE PACKAGING IS BIODEGRADABLE.

Having opened the box, remove the top packaging and lift the machine out and place upon a clear flat surface, taking care not to trap or pinch the power cable under the chassis. Remove the remaining items from the box and place safely aside.

GENERAL INSTRUCTIONS FOR 230V MACHINES

The following will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN



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

Mains Powered Tools

- Tools are supplied with an attached 13 Amp UK 3 pin plug, fitted with 10 amp fuse.
- Inspect the cable and plug to ensure that neither are damaged. Repair if necessary by a suitably qualified person.
- Do not use when or where it is liable to get wet.

Workplace

- Do not use 230V a.c. powered tools anywhere within a site area that is flooded.
- Keep machine clean.

- Leave machine unplugged until work is about to commence.
- Always disconnect by pulling on the plug body and not the cable.
- Carry out a final check e.g. check the cutting tool is securely tightened in the machine and the correct speed and function set.
- Ensure you are comfortable before you start work, balanced, not reaching etc.
- Wear appropriate safety clothing, goggles, gloves, masks etc. Wear ear defenders at all times.
- If you have long hair wear a hair net or helmet to prevent it being caught up in the rotating parts of the machine.
- Consideration should be given to the removal of rings and wristwatches.
- Consideration should also be given to non-slip footwear etc.
- If another person is to use the machine, ensure they are suitably qualified to use it.
- Do not use the machine if you are tired or distracted.
- Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.
- Check cutters are correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine.
- **OBSERVE....** make sure you know what is happening around you and **USE YOUR COMMON SENSE.**

SPECIFIC SAFETY PRECAUTIONS FOR SANDING MACHINES

DO NOT sand very small pieces of work with bare hands; try to construct some form of holder.

Make sure you are comfortable before you start work, balanced, not reaching etc. If the work you are carrying out is liable to generate excessive grit or dust or chips wear the appropriate safety clothing, goggles, masks etc. If the work operation appears to be excessively noisy wear ear-defenders. If you wear your hair in a long style wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the machine. Likewise, consideration should be given to the removal of rings and wristwatches if these are liable to be a 'snag' hazard.

DO NOT work with cutting/abrasive tools of any description if you are tired, your attention is wandering or you are being subjected to distraction.

DO NOT use the machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.

Check that sanding surfaces are still sufficiently abrasive to carry out the work you intend. Sanding belt cleaning sticks are an efficient method of prolonging the life of the belts and discs and will also maintain their operating performance.

Check that the belts or discs are undamaged; torn edges can pick up on the work piece and will cause the medium to tear, often very rapidly with accompanying sharp flapping edges.

Always offer the work piece to the belt/disc so that the motion carries the work against the restraining surface i.e. the work stop or the table (use the right hand side of the disc).

DO NOT press too heavily against the sanding surface, all this will do is slow the sander down. Remember, sanders work by removing small particles of material quickly and heavy pressure works adversely to the cutting process. Further, it will accelerate the rate of 'clogging' of the abrasive surfaces, rendering the machine less efficient.

If you are attempting to sand inside curves (over the 'tracking drum') do not press at all, other than to keep the work piece in contact with the surface, any pressure could upset the tracking geometry. As there is no cushioning effect to the belt passing around the drum, expect an added vibration and compensate for it.

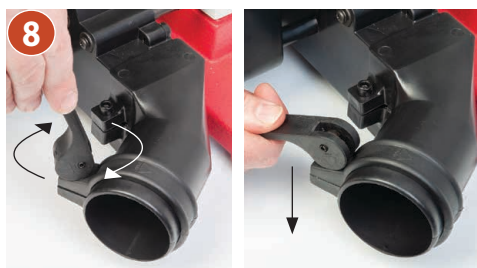
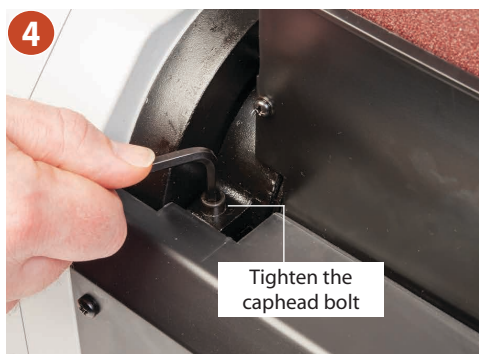
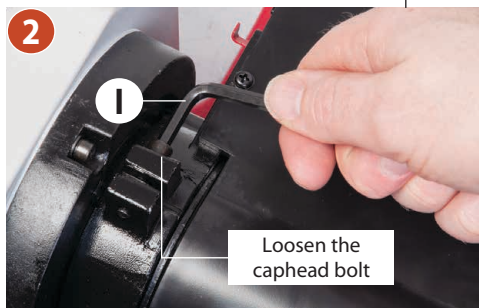
Sanding of certain types of timber may make the fitting of dust extraction mandatory in order to comply with the directives of the HSE. However, even if it is not mandatory, it is strongly recommended that you consider fitting dust extraction. It will certainly reduce the level of dust and grit, and as it helps to remove the waste quicker will certainly prolong the longevity of the abrasive.

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

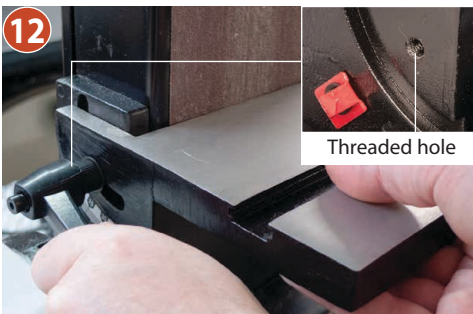
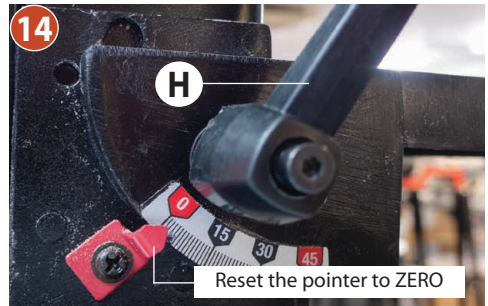
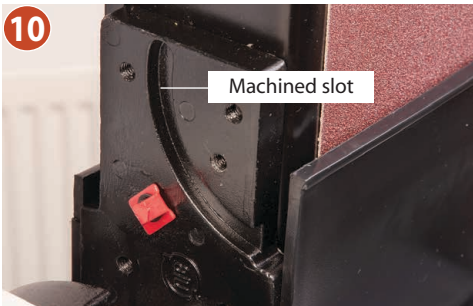
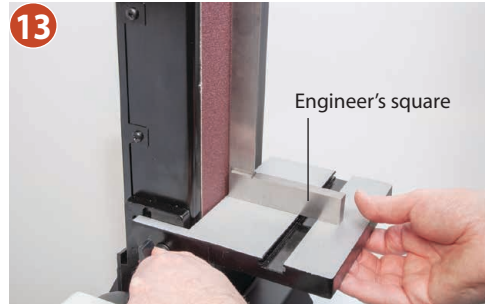
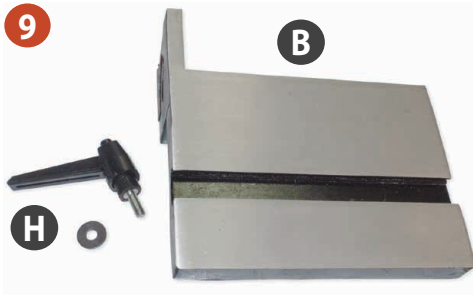
SPECIFICATION

Code	107680
Model	AW200BDS
Rating	Workshop
Power	550W 230V 50Hz 1Ph
Duty Cycle	S1 550W
Belt Speed	520m/min
Disc Speed	2,980 rpm
Disc Table Tilt	0° - 45°
Belt Tilt	0° - 90°
Disc Size	200 mm
Belt Size	100 x 914 mm
Table Size (Sanding Disc)	264 x 190 mm
Table Size (Sanding Belt)	170 x 120 mm
Dust Extraction Outlet	63 mm
Overall L x W x H	590 x 520 x 600 mm
Weight	26 kg

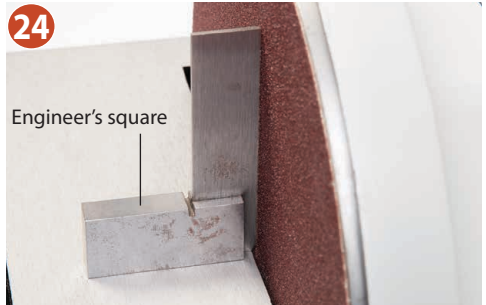
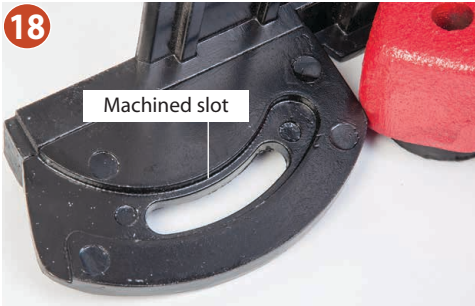
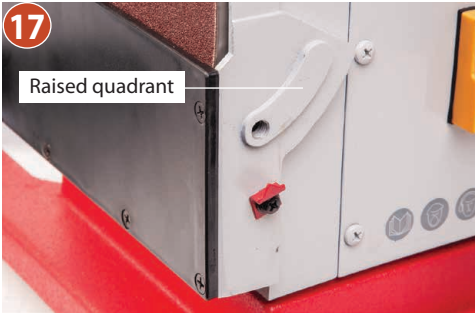
ASSEMBLY

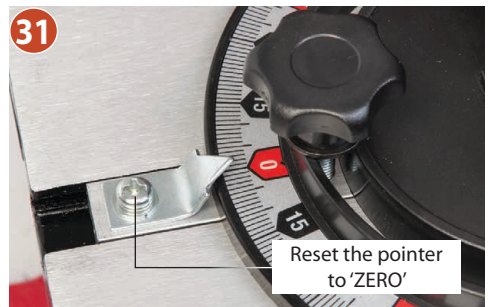


Take up the slack and press down the lever to lock in place.



ASSEMBLY





Check the mitre fence (F) is square to the linisher's belt and adjust if required.

ILLUSTRATION AND PARTS DESCRIPTION

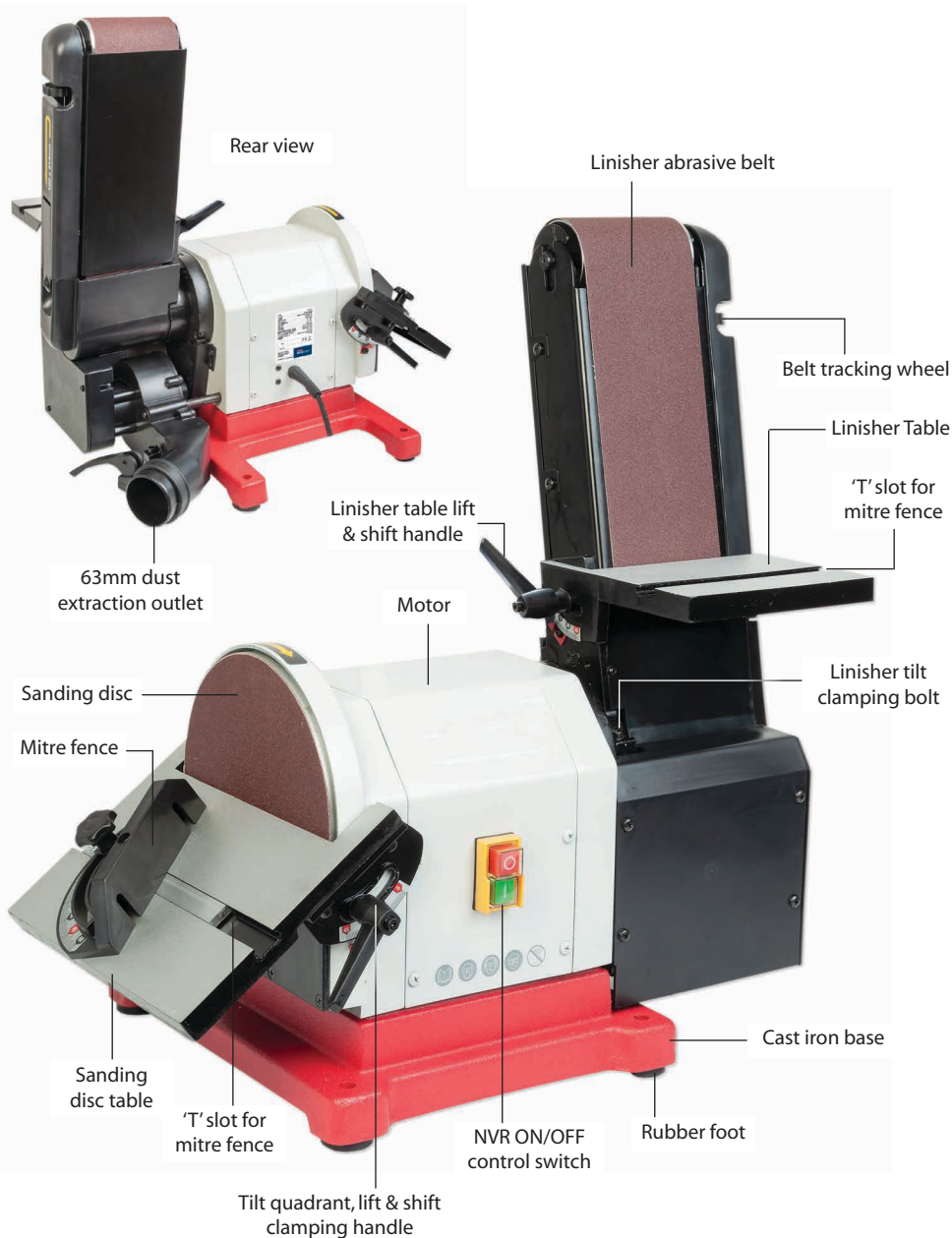


ILLUSTRATION AND PARTS DESCRIPTION



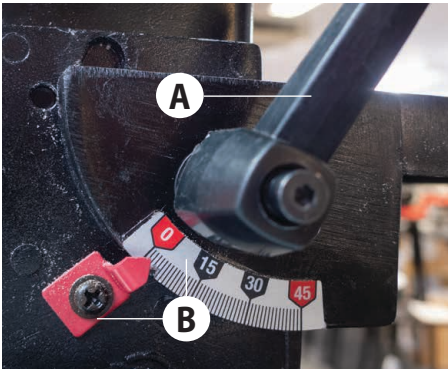
NVR ON/OFF control switch



63mm dust extraction outlet



Linisher belt tracking control wheel



Clamping handle (A), Linisher table scale & pointer (B)



Sanding disc table scale & pointer



Sanding disc table set at 90° degrees



Linisher table set at 90° degrees



Linisher table set at 45° degrees

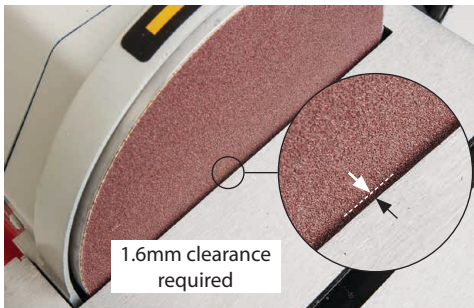
SET UP AND ADJUSTMENT

Setting the Table Clearance

The gap between the table and the disc should be set to a maximum of 1.6mm to clear the debris and to ensure sufficient support for the timber, see fig 01.

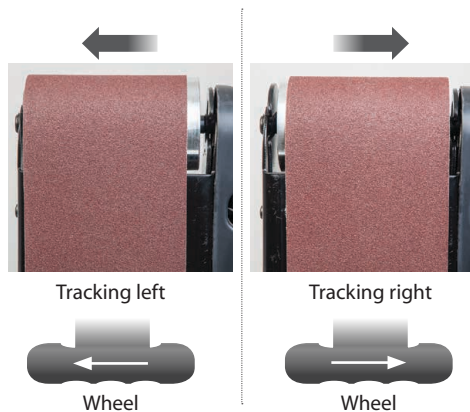
The table should be positioned so that sanding only occurs from downward movement of the disc/belt face. Small pieces of timber should not be disc sanded.

Fig 01



Tracking the Linisher Belt

1. The tracking control works as follows:-



2. Using your hand, roll the belt towards the drive drum, check that the belt stays in the middle of the table, if not, adjust the track control slightly, and move the belt again, continue until the belt runs down the centre of the linisher's table, see fig 02-03.



DO NOT make large adjustments, and remember the belt may take time to react to your alteration. Little by little is a good maxim to observe when carrying out tracking operations.

Fig 02-03-04



Belt running down the centre of the linisher

OPERATING INSTRUCTIONS



MAKE SURE THE SANDER IS ON A FLAT LEVEL SURFACE.



NOTE: GO ROUND AND MAKE SURE EVERYTHING IS SECURE, FASTENED DOWN, THAT ALL TOOLS ARE CLEARED AWAY FROM THE WORK AREA!



WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN



CONNECT A DUST EXTRACTION MACHINE TO THE SANDER.



ALWAYS WEAR EAR DEFENDERS, EYE PROTECTION AND DUST MASK.



CONNECT THE SANDER TO THE MAINS SUPPLY!

Give the machine a 'quick' burst check (i.e. quick ON-OFF) to ensure everything is O.K. If everything is satisfactory, the Belt & Disc Sander is ready for use.

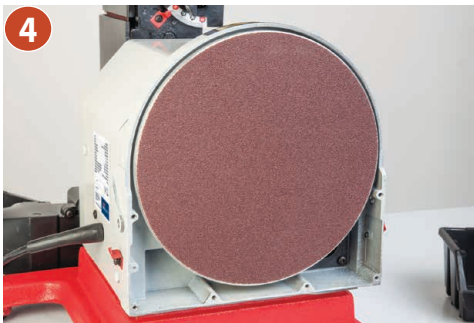


CHANGING THE ABRASIVE BELT/DISC

Sanding Disc



DISCONNECT THE SANDER FROM THE MAINS SUPPLY BEFORE CONTINUING!



Lift the edge of the disc and, gripping firmly, peel the disc away from the plate; turning the plate as required to free the entire disc. Clean the surface of the disc, allow to dry off and wipe over with a clean dry cloth.

Locate the sanding disc, peel the cover from the adhesive surface and apply **CAREFULLY** to the disc plate. Use a piece of cloth in your hand or wear a glove, to firmly press the abrasive to the disc plate, the application will be reinforced by a gentle sanding action across the face when you first use the new sanding disc. Re-assemble the sander.



CONNECT THE SANDER TO THE MAINS SUPPLY AND CONTINUE WITH OPERATION.

Linisher Belt

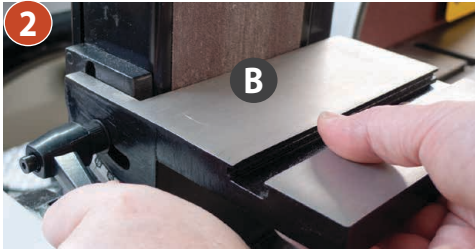


DISCONNECT THE SANDER FROM THE MAINS SUPPLY BEFORE CONTINUING!

Raise the linisher to the vertical position.



CHANGING THE ABRASIVE BELT/DISC



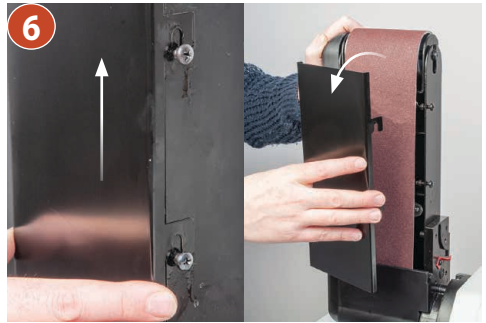
Remove the linisher table (B) assembly, place safely aside.



Remove the lower guard securing screws, place safely aside.



Loosen the two screws holding the rear guard.



Lift and remove the rear guard, place to one side.



Release the belt tension by lifting up the tensioning lever.



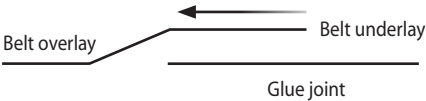
Remove the lower guard and place to one side.

CHANGING THE ABRASIVE BELT/DISC

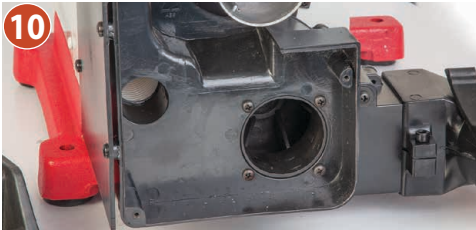


Remove the linisher belt. Inspect the new belt, ensure that there are no tears or rips especially along the edges, check the direction arrows on the inner surface of the belt and fit accordingly. The direction of the arrows should point to the drive drum of the sander.

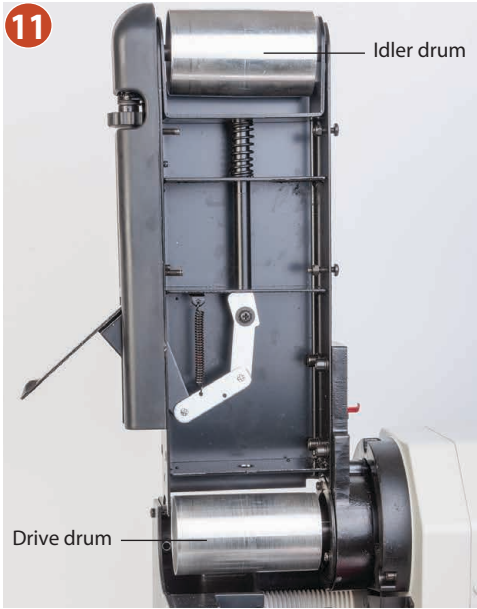
NOTE: If you are using an old belt, and the arrow markings have worn off, check the direction of travel, see diagram below.



NOTE: Before sliding on the new belt check there is no dust or resin build up on the drums or at the edges of the linisher, clean in and around the extraction ports for dust or resin build up.



Remove the side extraction access panel and check for signs of build up of dust and debris.



CHANGING THE ABRASIVE BELT/DISC



Replace the lower guard assembly.



Replace the lower guard front screw.



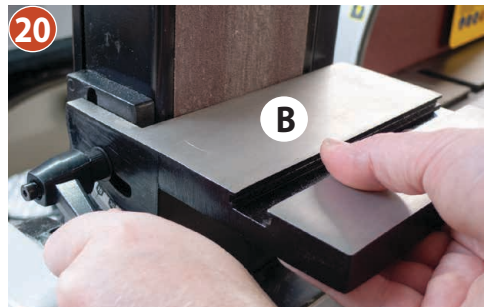
Lower the tension lever to re-tension the linisher belt.



Replace the lower guard side screw.



Replace the rear guard assembly.



Replace the linisher table (B) assembly.



**CLEAR ALL TOOLS AWAY FROM
THE WORK AREA. CONNECT THE
SANDER TO THE MAINS SUPPLY!**

Give the machine a 'quick' burst check (i.e. quick ON-OFF) to ensure everything is O.K. If everything is satisfactory, continue with operation.

MAINTENANCE



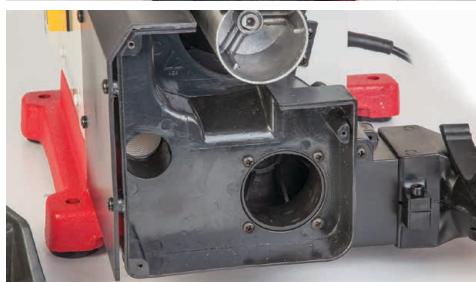
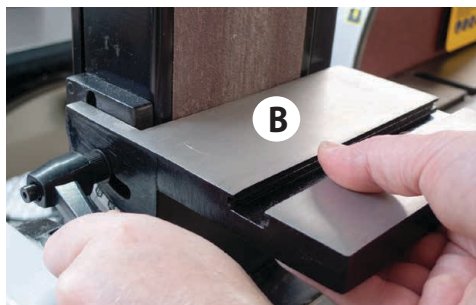
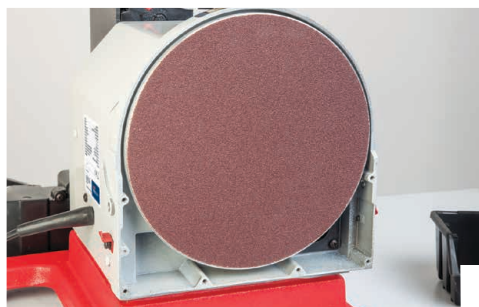
DISCONNECT THE SANDER FROM THE MAINS SUPPLY BEFORE CONTINUING!



ALWAYS WEAR EYE PROTECTION AND DUST MASK BEFORE CONTINUING.

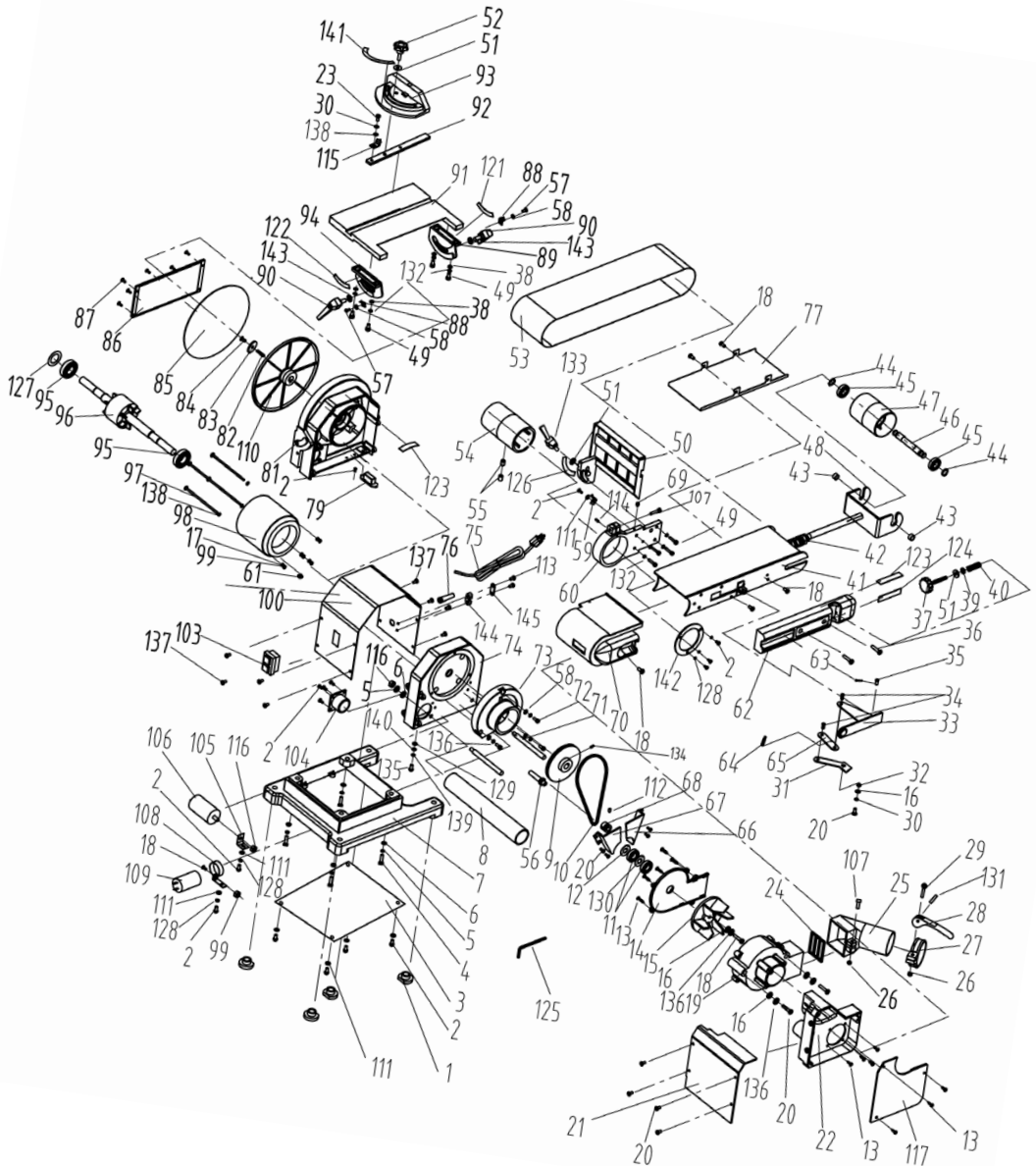
There is very little mechanical maintenance that can be carried out on the machine. Most prudent maintenance is preventative and concerned with keeping the machine clean.

- At reasonable intervals, inspect and remove all dust/resin build up using a class 'M' vacuum cleaner.
- Remove the sanding disc table (C) and extraction plate and clean any dust or resin build up. Inspect the sanding disc for signs of wear and tear and replace if necessary. Re-assemble the sander.



- Remove the liners table assembly (B), remove all the guarding as explained on pages 15-17. Clean any dust or resin build up, inspect the sanding belt for signs of wear and tear and replace if necessary. Re-assemble the sander.

- If the sander is not going to be used for a period of time, use 'Ambersil Dry PTFE Film Antistick', spray, code 952137 over the work tables and place a dust sheet over the sander.



EXPLODED DIAGRAMS/LISTS

NO	Specification	Size	QTY
1	Rubber Foot		4
2	Phillips Screw	M4 × 10	15
3	Bottom Plate		1
4	Phillips Screw	M8 × 25	4
5	Spring washer	D8	6
6	Flat washer	D8	6
7	Base		1
8	Connect Tube	350mm	1
9	Big Pulley		1
10	Poly-V- Belt		1
11	Collector Bearing	6000RZ	2
12	Spring Washer	D26	1
13	Phillips Screw	ST4.2 × 15	14
14	Fan Cover		1
15	Fan		1
16	Big Washer	D5	4
17	Standard Spring Washer	D5	4
18	Phillips Screw	M5 × 16	6
19	Fan Housing		1
20	Phillips Screw	M5 × 10	12
21	Front Cover		1
22	Dust Storage Box		1
23	Phillips Screw	M5 × 8	1
24	Exhaust Cover		1
25	Dust Exhaust		1
26	I Type Hex Nut	M6	2
27	Bag Clamp		1
28	Clamp Handle		1
29	Bolt	M6 × 40	1
30	Tooth Lock Washer	D5	2
31	Tension Level		1
32	Sleeve		1
33	Tension Handle		1
34	Pin	5 × 8	2
35	Pin	5 × 10	1

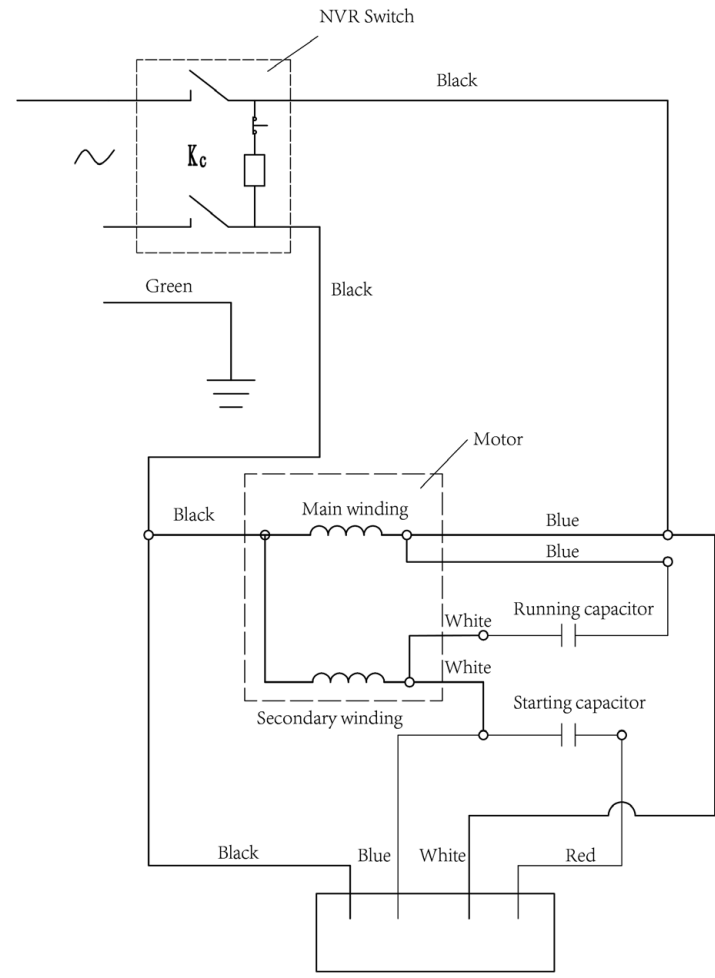
36	Phillips Screw	M5 × 25	2
37	Belt Tracking Knob		1
38	Flat Washer	D6	4
39	Rubber Washer		1
40	Adjust Spring		1
41	Belt Frame		1
42	Tension Spring		1
43	Sleeve		2
44	Spring Washer	D12	2
45	Bearing	6001RZ	2
46	Idler Shaft		1
47	Idler Pulley		1
48	Belt Tension Assembly		1
49	Inner Hex Screw	M6 × 12	8
50	Belt Working Table		1
51	Big Washer	D6	3
52	Mitre Gauge Knob		1
53	Sanding Belt		1
54	Drive Pulley		1
55	Inner Hex Screw	M8 × 12	2
56	Collector Shaft		1
57	Phillips Screw	M5 × 8	2
58	Flat Washer	D5	5
59	Worktable Angle Point		1
60	Belt Frame Connect		1
61	Cord bushing		1
62	Belt Cover		1
63	Pin	2 × 10	1
64	Spring Washer		1
65	Connection Plate		1
66	Right Cover		1
67	Left Cover		1
68	Small pulley		1
69	Phillips Screw & Flat Washer Assembly	M4 x 12	1
70	Belt Exhaust		1

EXPLODED DIAGRAMS/LISTS

71	Collector Mounting Shaft		2
72	Inner Hex Screw	M5 × 20	3
73	Belt Mounting Plate		1
74	End Cap		1
75	Power Cord		1
76	Cord Sleeve		1
77	Belt Protect Plate		1
79	Relay		1
81	Left End Cap		1
82	Key	5 x 5 x 15	1
83	Washer		1
84	Phillips Screw	M6 × 16	1
85	Disc Paper		1
86	Disc Cover		1
87	Phillips Screw	M4 × 10	6
88	Angle Pointer		2
89	Disc Left Support		1
90	Handle Assembly		2
91	Disc Work Table		1
92	Mitre Gauge Bar		1
93	Mitre Gauge		1
94	Disc Right Support		1
95	Bearing	6203RZ	2
96	Rotor		1
97	Phillips Screw	M5 × 180	4
98	Stator		1
99	I Type Hex Nut	M5	5
100	Motor Cover		1
103	Switch		1
104	Tube Connector		1
105	Capacitor Support 1		1
106	Capacitor 1	12μF450V	1
107	Inner Hex Screw	M6 × 25	2
108	Capacitor Support 2		1
109	Capacitor 2	100μF250V	1
110	Disc Plate		1

111	Flat Washer	D4	7
112	Inner Hex Screw	M5 × 8	1
113	Phillips Screw	M4 × 16	2
114	Phillips Screw		1
115	Mitre Gauge Pointer		1
116	I Type Hex Nut	M8	3
117	Dust Box Cover		1
121	Scale Label Left		1
122	Scale Label Right		1
123	Rotation Label		2
124	Belt Tension Label		1
125	Inner Hex Wrench	S=5	1
126	Scale Label		1
127	Spring Washer	D40	1
128	Standard Spring Washer	D4	5
129	Tooth Lock Washer	D4	1
130	Bearing Bushing		1
131	Spring Pin	4 x 22	1
132	Standard Spring Washer	D6	8
133	Linisher Work Table Handle		1
134	Inner Hex Screw	M5 × 12	1
135	Phillips Screw	M4 × 10	1
136	Standard Spring Washer	D5	6
137	Phillips Screw	M5 × 10	8
138	Flat Washer	D5	5
139	Lock Washer	D4	1
140	Flat Washer	D4	1
141	Mitre Gauge Scale Label		1
142	Support Location Plate		1
143	Flat Washer	D8	2
144	Cord Clip		1
145	Cord Clip Plate		1

WIRING DIAGRAM



		BD4800 (4"x8") 230V/50HZ Belt and disc sander
	1:1	OWDD. 360. 185

The Axminster guarantee

Buy with confidence from Axminster!

So sure are we of the quality, we cover all parts and labour free of charge for three years!



For more information visit axminstertools.com/3years



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

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