



Code 107697

Original Instructions

# AW153E

## 2.0HP Dust Extractor




AT&M: 24/05/2023  
BOOK VERSION: 4

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## EU DECLARATION OF CONFORMITY

<b>Cert No: FM300, FM300-L1</b>  Axminster Tool Centre Ltd Axminster Devon EX13 5PH UK <b>axminstertools.com</b>  declares that the machinery described:- <table border="1"><tr><td>Type</td><td><b>Dust Extractor</b></td></tr><tr><td>Model</td><td><b>AW153E</b></td></tr></table>  Signed  <b>Andrew Parkhouse</b> Operations Director Date: <b>08/08/2016</b>	Type	<b>Dust Extractor</b>	Model	<b>AW153E</b>	<b>EU Declaration of Conformity</b>  <b>This machine complies with the following directives:</b>  2006/42/EC 06/42/EC - Annex I/05.2006 EN 62233:2008 EN 60335-2-69:2012  EN 60335-1:2012+A11  and conforms to the machinery example for which the EC Type-Examination Certificate No AM 50352808 has been issued by <b>Laizhou Planet Machinery Co., Ltd.</b> at: Yutai West Street Laizhou, Shandong 261400 China and complies with the relevant essential health and safety requirements.
Type	<b>Dust Extractor</b>				
Model	<b>AW153E</b>				

**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



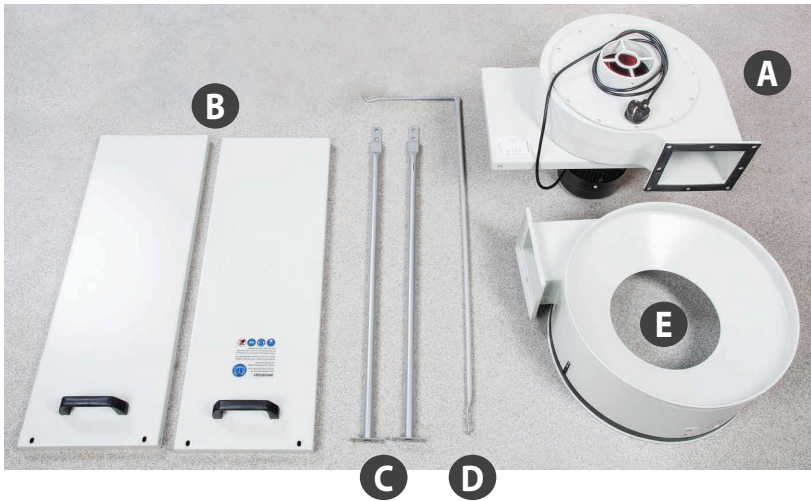
Dust mask  
should be worn



HAZARD  
Motor gets hot

## WHAT'S INCLUDED

Quantity	Item	Part	Model Number
			AW153E
1	Extractor Assembly	<b>A</b>	
2	Extractor Support Panels	<b>B</b>	
2	Extractor Housing Upright Supports	<b>C</b>	
1	Filter Bag Hanger Bar	<b>D</b>	
1	Extractor Housing Cavity	<b>E</b>	
1	Base	<b>F</b>	
4	Castor Wheels	<b>G</b>	
16	Dome Head Screws	<b>H</b>	
1	Inlet Manifold	<b>I</b>	
1	Dust Bag	<b>J</b>	
1	30 Micron Filter Bag	<b>K</b>	
2	Filter and Bag Retaining Belts	<b>L</b>	
28	Bolts, Flat Washers & Nuts	<b>M</b>	



# WHAT'S INCLUDED



**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.

There is also a detailed description of the parts of your Extractor, which will enable you to become familiar with terminology we will use in this manual. Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.

## OPTIONAL ACCESSORIES

Quantity	Item	Part
1	AW153E Filter Cartridge	N Code 700345

Air filter cartridge for the AW153E chip extractor. Upgrade the performance of these extractors, able to handle fine saw dusts as well as chippings. Simply slots on with a stiff rubber seal.

Partical size 1 micron. Internal mounting size is 480mm diameter.



The AW153E is the largest extractor in our Craft range, which with its 1.5kW motor, large capacity collection bag and twin 100mm hose inlets, will handle most single workshop machines. Use the single 125mm inlet or the twin 100mm adaptor for two smaller machines.

The top cloth bag acts as the filter whilst the lower plastic bag collects the coarse dust and chippings. Plastic bags allow a number of bags to be filled and stored ready for bulk disposal. There are bag hooks to make changing a

full bag easy. The extractor's filtration performance can be upgraded with the addition of the cartridge filter (700345). This has a large surface area of filter material, so does not reduce the airflow. A simple rotating handle is used to clean the filter.

For best results, keep the hose size to a minimum of 100mm; using a smaller diameter hose will cause the air flow to drop markedly. Castors on the base allow for easy mobility around the workshop.



**HAVING UNPACKED YOUR MACHINE, PLEASE DISPOSE OF THE PACKAGING PROPERLY.**

## 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 plug.
- 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 FOR DUST EXTRACTORS

**DO NOT** use this machine as a vacuum cleaner, try to keep the waste medium to wood by-products.

**DO NOT** uplift workshop floor debris (stones, nails, screws, paper etc., etc). Be aware that wood dust is an explosive medium.

**DO NOT** allow any 'naked light' source to occur anywhere near the machine. This includes cigarettes, matches, etc, and do not place the machine near any unprotected light bulbs, that could possibly get broken.

The suction force is generated by a high speed fan unit. This has the potential to amputate fingers, grab loose clothing (ties etc.,) and 'bat' large chips etc, at high speeds. Keep all guarding in place, and if access to the fan becomes necessary (due to blockage etc.,) Disconnect the machine from the mains supply and ensure the fan has come to a complete stop before putting your hands anywhere near to it.

If you are not using 'clear' extraction hose, periodically remove the hose to check that the inlet to the machine is not getting restricted.

The safety guard grill of the inlet duct can be particularly irksome in this way, as long strand shavings etc., can wrap around the grill fret.

**KEEP** the particle filter clean. The machine relies on its ability to 'blow' air through the filter, to generate good suction. If the particle filter starts to clog, this reduces the air flow and hence the machine becomes less efficient. The particle filter can be cleaned, by using an 'M' class vacuum cleaner, clean the inside of the filter.

**BE AWARE** that in dry air periods or areas, the movement of the air through the machine can generate static electric fields. These are not normally a problem as the machine is bonded together via its construction and the whole is earthed back through the electrical supply. Problems can occur with isolated items, such as stands or hosing that are insulated from the ground (standing on rubber feet?, suspended in the air etc). If possible, try to connect everything together electrically, to eliminate static shocks. (Use the integral metal coil in flexible hosing to connect the units together). Try to route the power cable and the hosing away from busy walkways.



**ONLY USE DUST EXTRACTION BAGS WITH THIS MACHINE NOT DOMESTIC WASTE BAGS!**

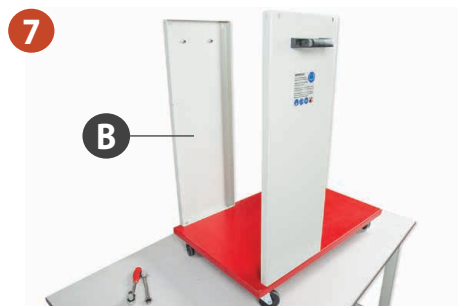
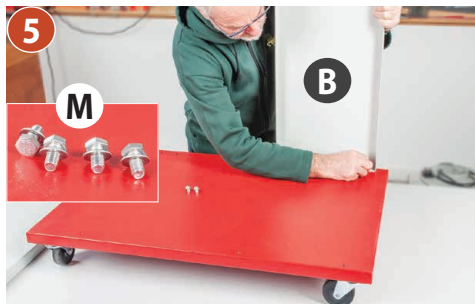
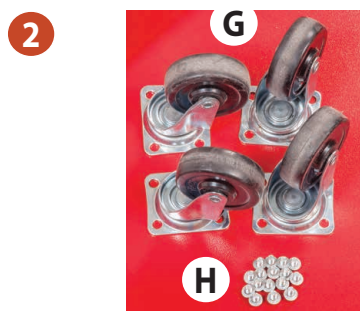


**DO NOT PLACE DUST EXTRACTION BAGS OVER THE FILTER ASSEMBLY!**

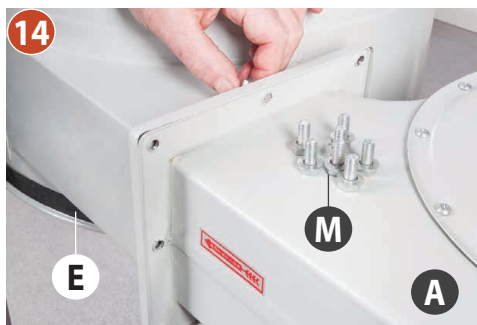
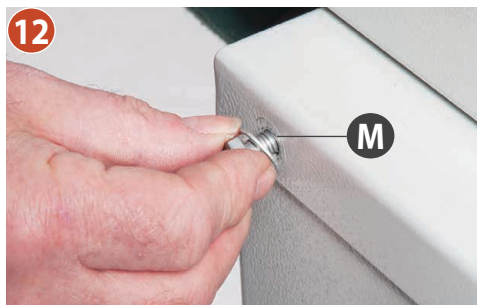
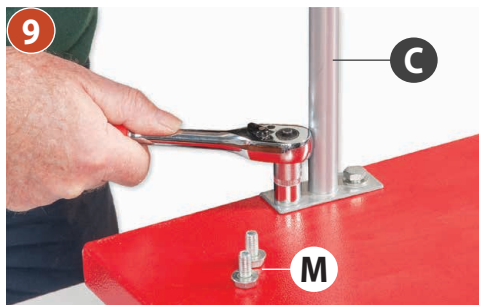
## SPECIFICATION

Code	107697
Model	AW153E
Rating	Home Workshop
Power	1.5 kW
Air Flow	1,165 m <sup>3</sup> /hr @ 100mm 1,730m <sup>3</sup> /hr @ 125mm
Filtration	30 micron
Hose Diameter	1 x 125mm or 2 x 100mm
Bag Capacity	150 litre
Overall L x W x H	890 x 560 x 1,990mm
Weight	48.5kg





## ASSEMBLY



Locate the extractor housing cavity (E), position the outlet housing over the extractor's outlet. Place a bolt (M) through

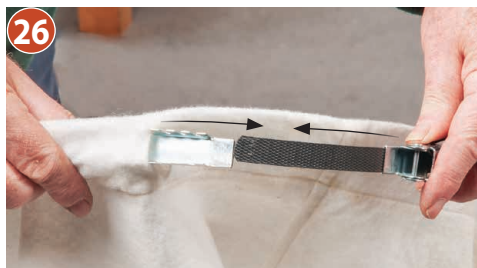
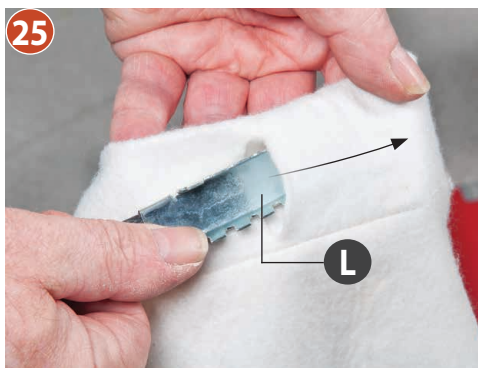




the centre mounting hole and secure with a flat washer/nut. This will support the extractor housing (E) while you secure the remaining bolt/washers/nuts, see step 14-15-16-17-18.



## ASSEMBLY



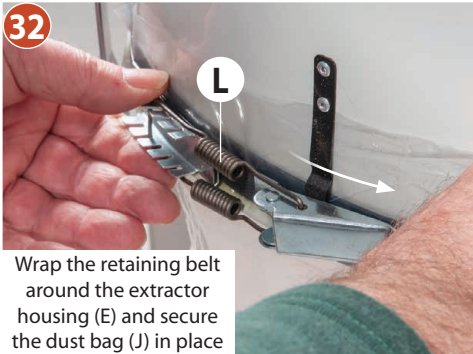
30



31



32



33



## Optional Filter Cartridge Code 700345

1



• Remove the retaining belt (L) and remove the 30 micron filter bag (K), place to one side.

2



3

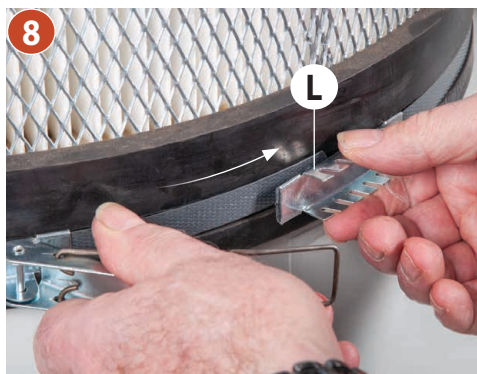


4





## ASSEMBLY

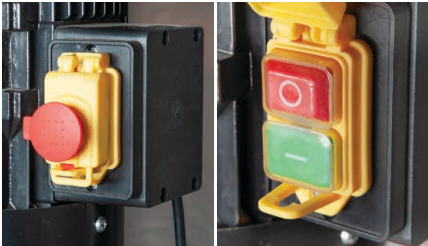


- Locate the filter cartridge (N) and lower the assembly down over the extractor's housing cavity and secure using the retaining belt (L).



ILLUSTRATION AND PARTS DESCRIPTION

30 Micron filter bag



NVR ON/OFF control switch

Filter bag hanger bar

Dust collecting bag

Extractor housing upright support

x2 100mm Inlet manifold

Extractor assembly

Handle

Extractor support panel

Base

Castor wheel

Extractor Set Up 1



# ILLUSTRATION AND PARTS DESCRIPTION



### Testing the Extractor

Connect the extraction hose/s to the extractor's inlet.



**WARNING! MAKE SURE CHILDREN ARE KEPT AWAY FROM THE EXTRACTOR WHILE IN OPERATION.**



**CONNECT THE POWER SUPPLY TO THE MAINS AND SWITCH ON!**



**NOTE: ALWAYS TURN ON/OFF THE EXTRACTOR BY THE NVR CONTROL SWITCH NOT THE MAINS SWITCH!**



NVR ON/OFF control switch



**WAIT UNTIL IT'S UP TO FULL SPEED AND CHECK FOR SIGNS OF VIBRATION, IF ALL IS WELL SWITCH OFF AND WAIT UNTIL THE EXTRACTOR HAS COME TO A COMPLETE STOP.**



**IF THE EXTRACTOR FAILS TO START UP OR THERE ARE ANY OTHER STRANGE NOISES APART FROM VIBRATION SOUNDS, CONTACT THE "TECHNICAL SALES" FOR SUPPORT.**

**PHONE: 03332 406406  
EMAIL:  
TECHNICALSUPPORT@AXMINSTERTOOLS.COM**

### Reduced Suction Performance

After a period of time dust, sawdust and shavings can build up causing blockages and reduced suction performance. Carry out the following checks to keep your extractor working at peak performance.



**DISCONNECT THE POWER SUPPLY FROM THE MAINS!**



**ALWAYS WEAR A DUST MASK AND EYE PROTECTION.**

- Remove the micron filter bag and check for signs of build up of sawdust and clean with an 'M' class vacuum cleaner.
- If you have the cartridge filter fitted, move the shaker paddle handle back and forth to remove any built up dust and debris from inside the filter.
- Check the hose/s for blockages.
- Check the dust collecting bag and empty if full.
- After a period of time remove the cartridge filter if installed and using a 'M' class vacuum cleaner clean the interior and exterior of the filter.

Remove the filter cartridge



## MAINTENANCE



**DISCONNECT THE POWER SUPPLY  
FROM THE MAINS!**



**ALWAYS WEAR A DUST MASK AND  
EYE PROTECTION.**

### Daily

- Empty the collection bag before it overflows, wear a dust mask whilst removing and emptying the bag.

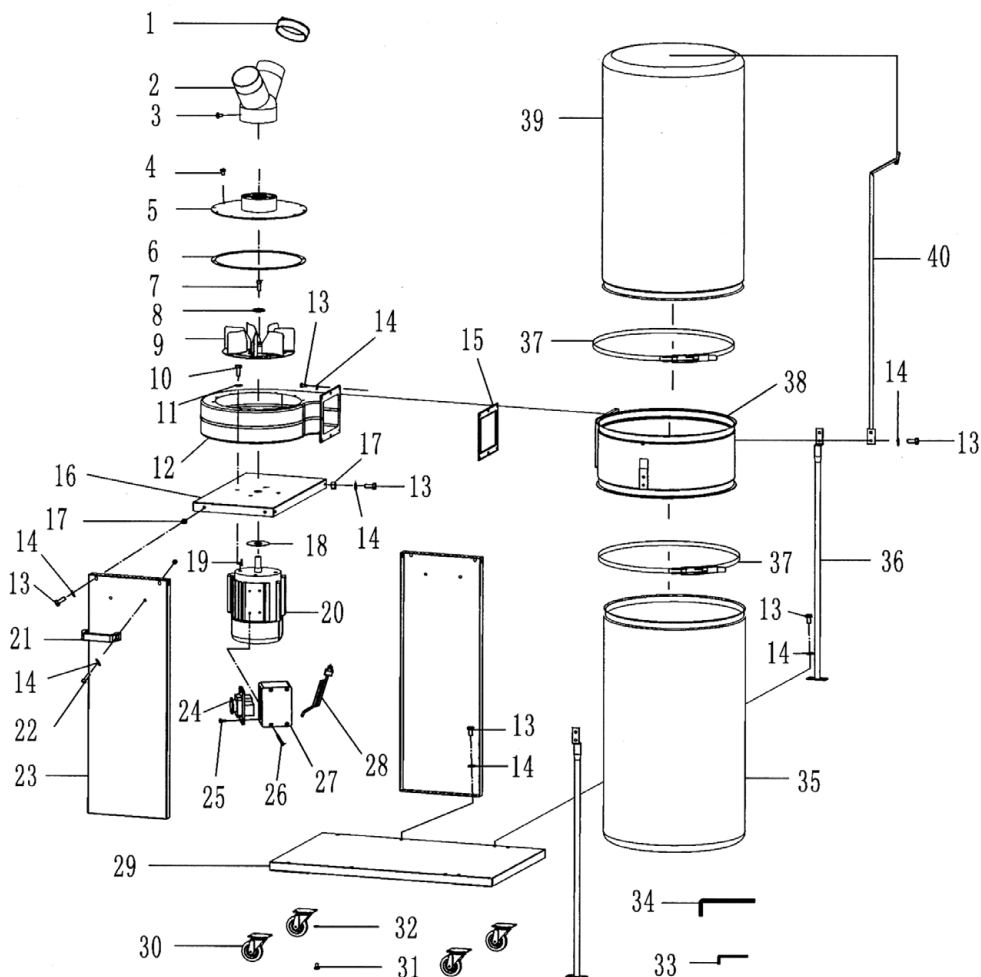
### Weekly

- Check the inlet and outlet duct and remove any accumulated sawdust.
- Check the inlet hoses for splits and cracks, repair as necessary.
- Check the dust collection bag for wear and tear, especially around the neck of the retaining belt. If wear or fraying is occurring, replace the bag.
- Check the motor for dust, sawdust, shavings etc, build up. If this has occurred, clean with an 'M' class vacuum cleaner.
- Move the shaker paddle handle on top of the filter cartridge assembly, if fitted, back and forth to remove any built up dust and debris from inside.



Clean the filter cartridge with an 'M' class vacuum cleaner





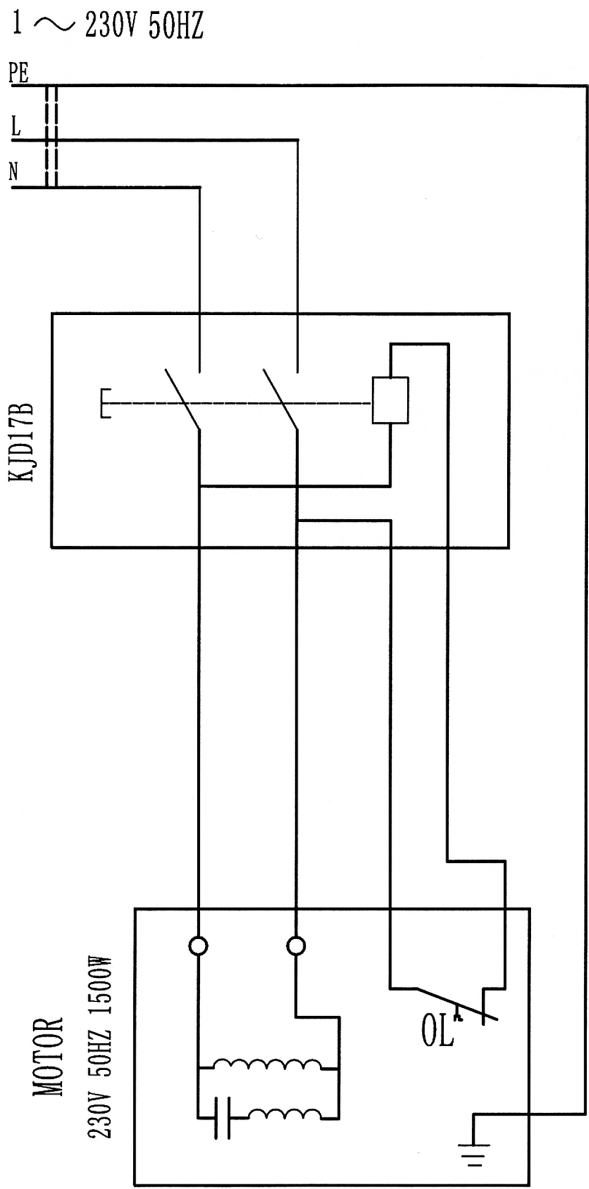
## EXPLODED DIAGRAMS/LISTS

PART NO	DESCRIPTION	QTY
1	INLET-CONNECTOR COVER	1
2	INLET-CONNECTOR	1
3	SLOTTED PAN HEAD SCREW M5 x 8	1
4	SLOTTED PAN HEAD SCREW M6 x 10	12
5	INLET	1
6	SEAL RING	1
7	HEXAGON SOCKET SCREW (LEFT THREAD) M6 x 20	1
8	C RING	1
9	TURBO FAN	1
10	HEXAGON HEAD SCREW M10 x 16	4
11	SPRING WASHER 10	4
12	FAN HOUSING	1
13	HEXAGON HEAD SCREW M8 x16	28
14	WASHER 8	28
15	SEAL PAD	1
16	MOTOR PLATE	1
17	HEX NUT M8	8
18	RUBBER PAD	1
19	PIN A5 x 25	1

20	MOTOR	1
21	HANDLE	2
22	HEXAGON SOCKET SCREW (LEFT THREAD) M8 x 20	4
23	SUPPORT PLATE	2
24	SWITCH	1
25	SLOTTED PAN HEAD SELF-SETTING SCREW ST4.2 x 13	2
26	SLOTTED PAN HEAD SCREW M4 x 60	4
27	SWITCH BOX	1
28	PLUG	1
29	BASE PLATE	1
30	UNIVERSAL CASTER 3"	4
31	SLOTTED PAN HEAD SCREW M6 x 10	16
32	WASHER 6	16
33	HEX WRENCH 5	1
34	HEX WRENCH 6	1
35	COLLECTOR BAG	1
36	COLLECTOR SUPPORT	2
37	BAG CLAMP	2
38	COLLECTOR	1
39	FILTER BAG	1
40	FILTER SUPPORT	1



Electric Diagram for 230V/50Hz/1500W



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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**