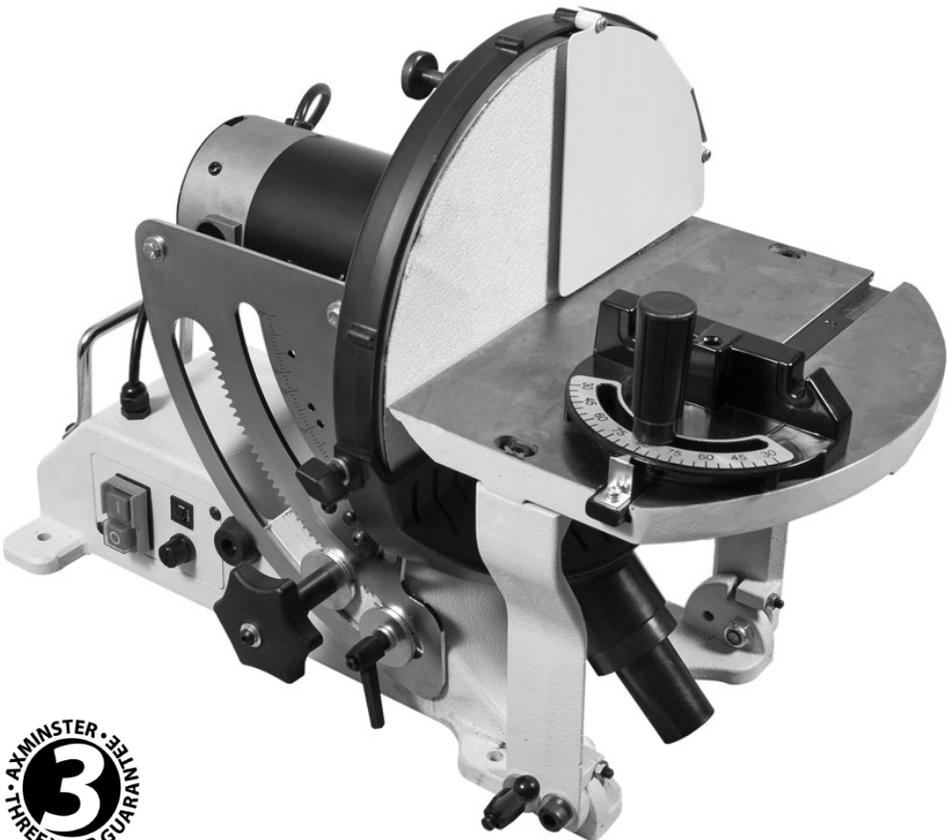


AXMINSTER

**Trade**  
SERIES

Code 501188

# SS-12VS 305mm Disc Sander



# Index of Contents

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Index of Contents	02
Declaration of Conformity	02
What's Included	03
General Instructions for 230V Machines	04
Specific to Sanding Machines	05
Specification	06
Assembly	06-07-08
Setting up	08-09-10
Parts Illustration and Description	11-12
Operating Instructions	13-14
Changing the Abrasive Disc	14-15
Maintenance	16
Trouble Shooting	17
Parts Breakdown/List	18-19-20-21
SS-12VS Wiring Diagram	22
Notes	23

## Declaration of Conformity

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### Copied from CE Certificate

The undersigned, N. Sifonios authorised by

KINGCRAFT MACHINERY COMPANY LIMITED.  
No.26, Gong Yeh 12rd, Dah Li District, Taichung City,  
Taiwan

**Model Number SS-12VS (Disc Sander)**

Manufactured by KINGCRAFT MACHINERY COMPANY LIMITED. is in compliance with the standards determined in the following Council Directive.

**EN 60204-1:2006+A1: 2009**  
**EN ISO 12100: 2010**

**Low Voltage Directive: 2006/95/EC**  
**Machinery Directive: 2006/42/EC**



## Warning

The symbols below advise that you follow 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
1 No	SS-12VS Disc Sander	<b>A</b>	<b>SS-12VS</b>
1 No	Mitre Fence	<b>B</b>	
1 No	Dust Extraction Adaptor (63mm to 37mm)	<b>C</b>	
1 No	Dust Extraction Adaptor (63mm to 100mm)	<b>D</b>	
1 No	Instruction Manual		

## Optional Accessories

Quantity	Item	Part	Product Code
1 No	Stand	<b>E</b>	<b>501189</b>



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.



**Having unpacked your sander and its various components, if you do not wish to retain the packaging please take it to a recycling centre.**



**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 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.**

# General Instructions for 230V Machines

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## Good Working Practices/Safety

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



## Disc Sander

### Primary Precautions

These machines are supplied with a moulded 13 Amp. plug and 3 core power cable. Before using the tool inspect the cable and the plug to make sure that neither are damaged. If any damage is visible have the tool inspected/repared by a suitably qualified person. If it is necessary to replace the plug, it is preferable to use an 'unbreakable' type that will resist damage on site. Only use a 13 Amp plug, make sure the cable clamp is tightened securely. Fuse at 13 Amp. It is also good practice to use switched outlets. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine. This machine is intended primarily for inside/workshop usage.

### Work Place/Environment

Always mount the machine on a flat, level stable surface. There are several methods of achieving this; bolting the machine directly to a 'good solid workbench'; bolting the machine to a sturdy base board that can be clamped to the 'good solid workbench'; create an independent entity by bolting the machine to its own stand. However you mount your machine, make sure it is secured down and stable before use.

Paper belts and discs do not respond well to wet or damp conditions. In the worst case the adhesives holding the belt and the abrasive fail completely, the belts fall apart and the abrasive becomes a soggy mess against the edge of your workpiece.

Try to keep the machine in a reasonably dry, warm environment. If this is not possible, or if the machine is to remain unused for some time, at least remove

the disc, put in a 'plastic' bag and store in a warm dry place. With regard to the disc, this advice is on practical if you have upgraded to a Velcro fastening method. Also ensure that spare belts/discs are not stored in damp conditions.

Keep the work area as uncluttered as is practical; this includes personnel as well as material.



## Specific to Sanding Machines

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Once the sander is mounted, carry out any setting operations and remove all tools used in the setting operations (if any) and place safely out of the way. If you are working long lengths of material, arrange for extra support beyond the boundary of the machine, and check you have sufficient room to manoeuvre the material through all the operations you will wish to carry out.

It is good practice to leave the machine unplugged until work is about to commence; also make sure to unplug the machine when it is not in use. Always disconnect by pulling on the plug body and not the cable.

After fitting a new sanding disc, it is good practice to lightly sand across the left side of the disc with a reasonable sized (20mm x 50mm) piece of timber to make sure the sanding disc is correctly 'seated' on the disc. The sanding action will press the sanding disc firmly back against the disc itself.

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, hair net, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the machine. Likewise,

## Specific to Sanding Machines

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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 workpiece and will cause the medium to tear, often very rapidly with accompanying sharp flapping edges.

Always offer the workpiece 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 left 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 workpiece 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

Model	SS-12VS
Product Code	501188
Rating	Trade
Power	750W (230V, 1ph)
Speed	1,000 - 3,000rpm
Diameter of Disc	305mm (12")
Table Size	300 x 225mm
Table Tilt	-5° to +45°
Dust Extraction Outlet	63mm
Overall L x W x H	650 x 400 x 430mm
Weight	32kg

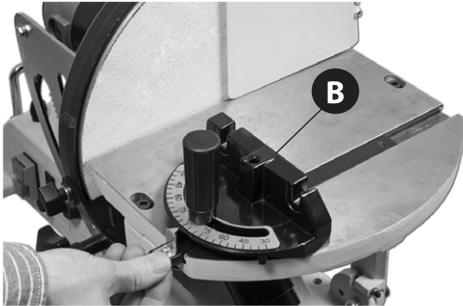
## Assembly

The disc sander comes fully assembled except the mitre fence (B) and the dust extraction adaptor (C). Please follow the assembly instruction below.

### Mitre Fence

Locate the mitre fence (B) and slide it into the tables 'T' slot, see fig 01.

Fig 01



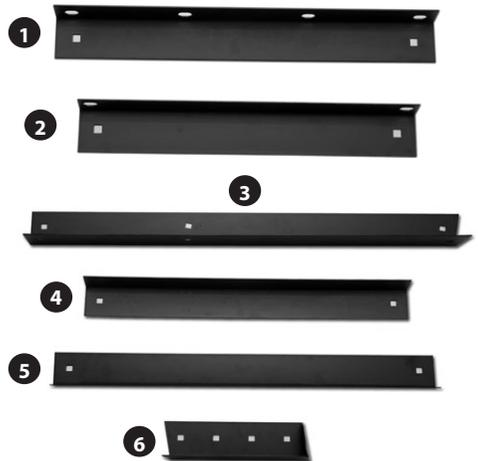
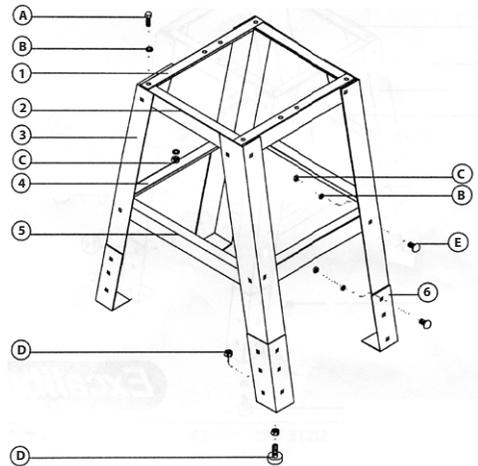
### Dust Extractor Adaptor

Locate the dust extractor adaptors (C) or (D), insert it into the 63mm sander outlet.

Fig 02



### Optional Stand Assembly





**A**

X4 M8  
Bolts



**E**

X24 M8  
Coach Bolts



**B**

X32 M8  
Washers



**C**

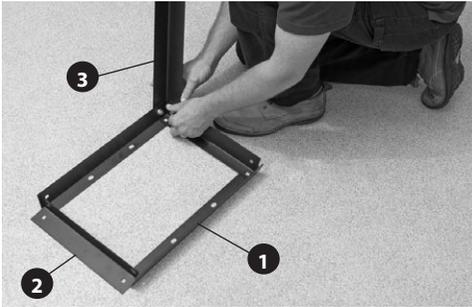
X28 M8  
Nuts



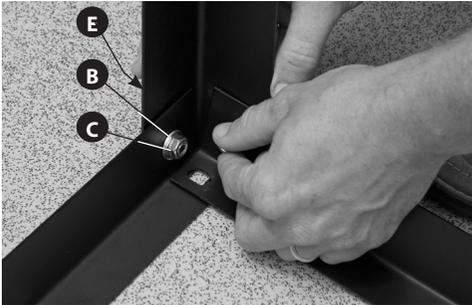
**D**

X4 Thread  
Rubber Foot

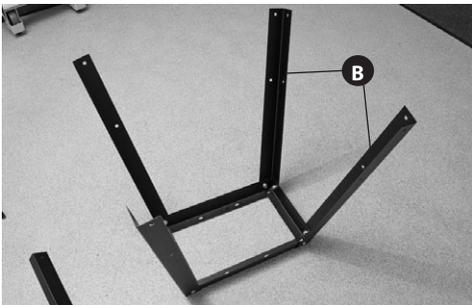
## Step 1



## Step 2



## Step 3



## Step 4



## Step 5

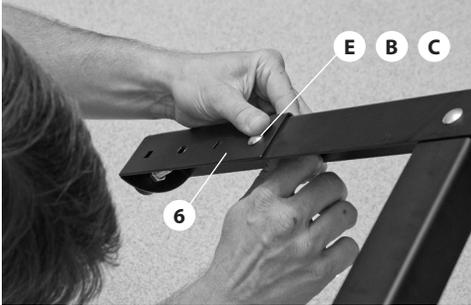


## Step 6



# Assembly

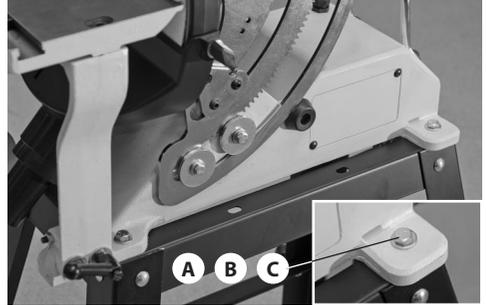
## Step 7



## Step 8



## Step 9



Lower the disc sander on top of the stand and line up the holes, using the four bolt (A) washer (B) and Nuts (C) secure the sander to the stand

## Step 10



## Setting up



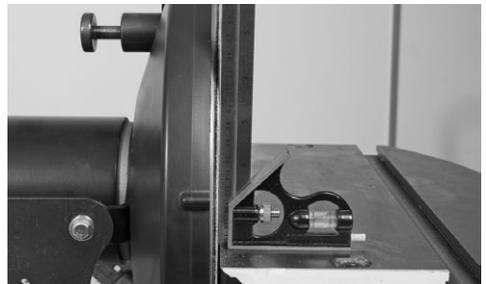
**NOTE:** Before using your disc sander you need to check that the table is perpendicular by using a 90° square.

Place a 90° square on the sanding disc table, see fig 03 and check that the table is perpendicular to the sanding disc. If it requires adjustment loosen the tilt mechanism clamp (a), see fig 04 and turn the rise and full control knob (b) until the table is at 90° to the sanding disc then tighten clamp (a). **DO NOT OVERTIGHTEN**

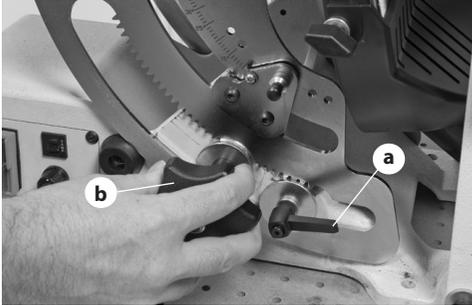
### Table Stops

There are two adjusting nuts to the base of each table leg, see fig 05. This is to set the gap between the table and disc. Release the table clamps (c), using a spanner loosen the nuts (d) and adjust the grub

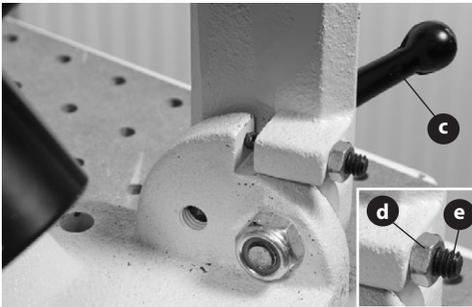
## Fig 03



**Fig 04**



**Fig 05**

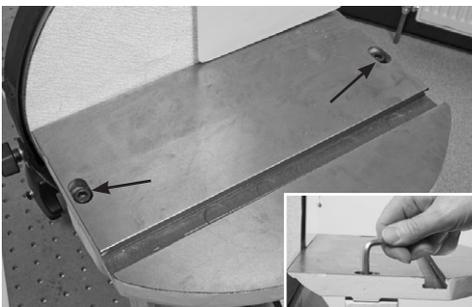


screw stops (e) so the table does not come into contact with the sanding disc, tighten the nuts to lock the table stops in position. Re-tighten the table clamps (c).

**Table Top Adjustment**

The table top can be adjusted so it's square to the sanding disc. Using a Hex key loosen the two Hex bolts in the table, see fig 6.

**Fig 06**



**Fig 07**



Using a square adjust the table until it is set to 90° to the disc. Re-tighten the hex bolts.

**Scale Pointer**

Now the table is set correctly you may have to adjust the pointer on the scale so it's set to (0°) degrees. Loosen the Phillips screw and adjust until correct, re-tighten the screw. (see fig 08)

**Fig 08**



Loosen the Phillips screw and line up the pointer so it reads (0°) degrees on the scale.

Your disc sander is now ready. Check that all fixings are secure before operating the machine.

**CONNECT THE SANDER TO THE MAINS SUPPLY**

## Setting up

Remove all tools away for the machine, Switch on, wait until the machine has reached full speed and check that the disc sander is running properly ie, no vibration or rattling for example. If not, switch off, wait for the machine to come to a complete stop, disconnect the sander and check all fixing to make sure they are tight. Reconnect, switch on and check again. If everything is fine, switch off and wait until the machine has come to a complete stop.



**DISCONNECT THE SANDER FROM THE MAINS SUPPLY**

### Dust Extraction

The dust extraction moulding has a 63mm outlet, insert a jubilee clip over the general purpose extraction hose and insert it over the outlet and clamp in place.

Also the disc sander comes with two adaptors (**C**) and (**D**) see figs 09-10. Fit a general purpose hose with either a 37mm or 100mm diameter and with a jubilee clip, secure in place.



**DO NOT OVERTIGHTEN AS THE EXTRACTION OUTLET IS ONLY PLASTIC AND CAN CRACK IF DONE UP TOO TIGHT.**

Alternately, if you have a vacuum cleaner with the same diameter hose insert it over the outlet as before, it should be a snug fit. (see fig 11)

**Fig 09**

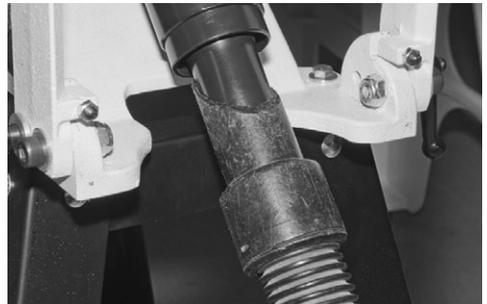


**C**

**Fig 10**

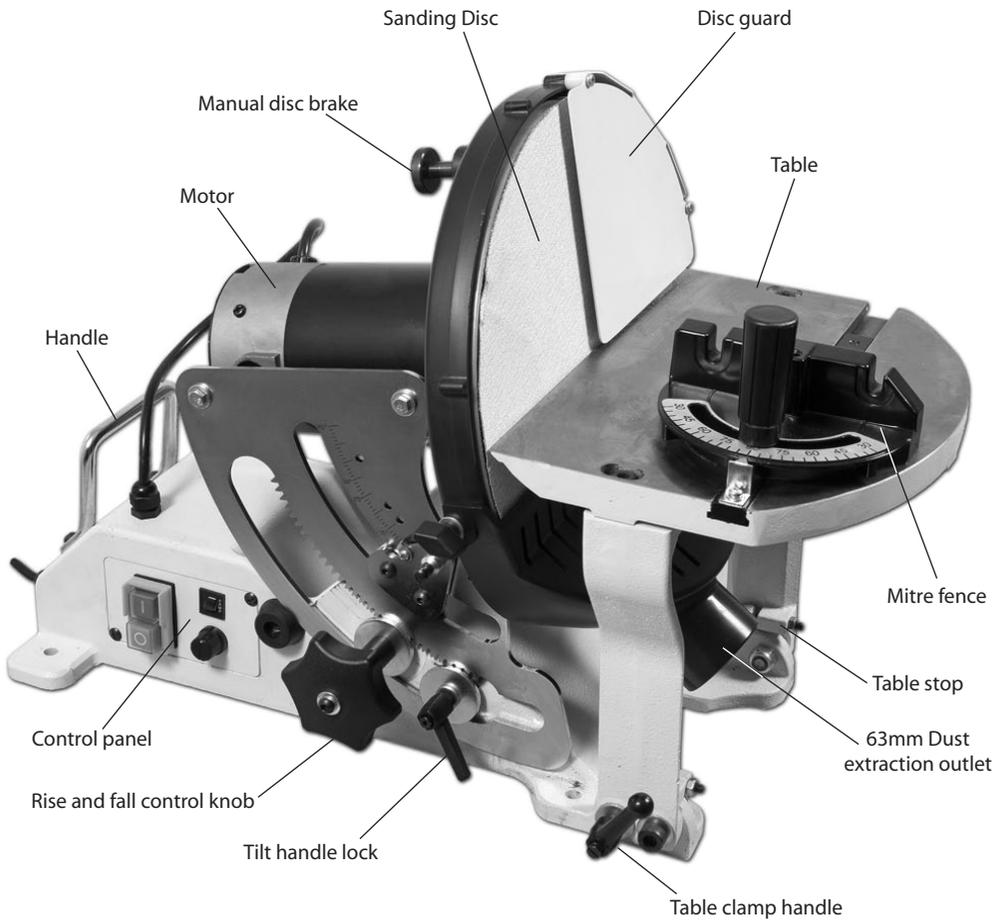


**Fig 11**

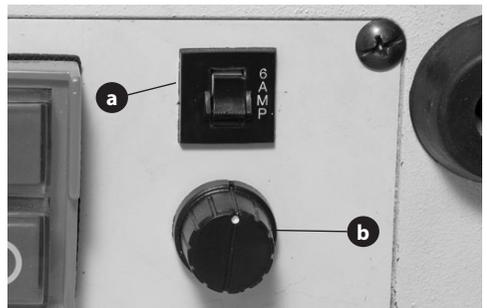


Vacuum cleaner hose connected to sanders adaptor

# Parts Illustration and Description



On/Off NVR switch assembly, (I) on and (O) off

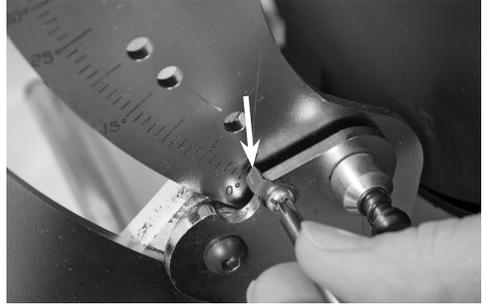


6 AMP OVERLOAD TRIP SWITCH (a)  
and speed control knob (b)

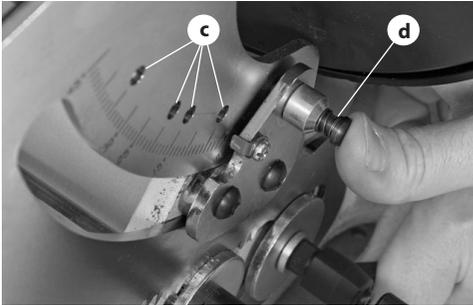
# Parts Illustration and Description



Tilt mechanism scale



Tilt mechanism scale pointer



Pre-set/Index stops (c) and preset stop pin (d)

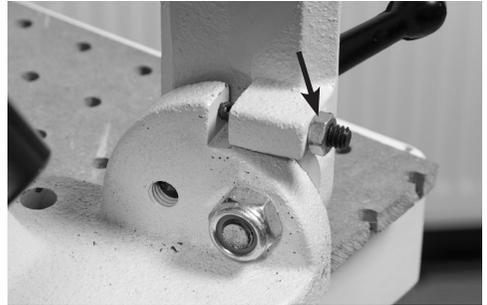
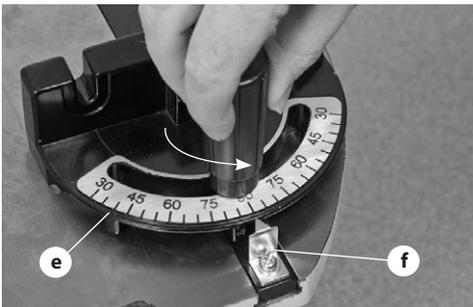


Table stop adjuster



Mitre fence scale (e) and pointer (f)



Rotating the mitre fence

## Rise and Full Control Assembly

The table on this sander remains level whilst the whole motor and disc arrangement tilts. This allows your work to stay level, improving accuracy and safety. The disc can be tilted from **-5° to +45°**, enabling many tasks to be undertaken. The disc angles are adjusted by a rack and pinion arrangement, plus there is a quick action index system enabling you pre select angles from **-5, 0, 15, 22.5, 30 & 45°**.

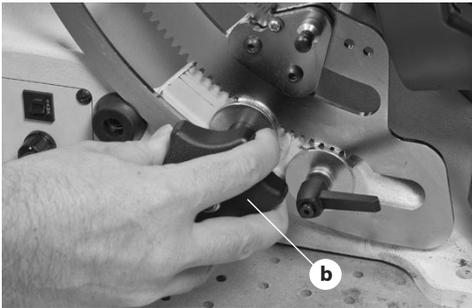
## Tilting the Disc Sander

1. Unlock the tilt handle lock **(a)**, see fig 12.
2. Twist the rise and fall Control knob **(b)**, until you have the correct angle. Then lock the assembly in place with the locking handle **(a)**. (see fig 12-13)

**Fig 12**



**Fig 13**

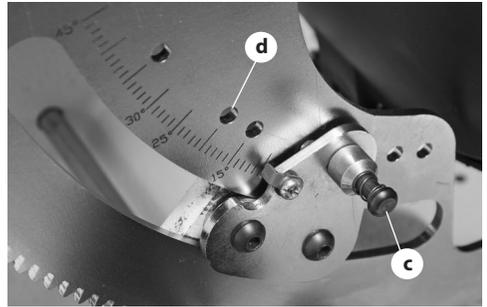


## Pre-set/Index system

The Pre-set/index system enables you to pre select angles from **-5, 0, 15, 22.5, 30 & 45°**.

1. Unlock the tilt handle lock **(a)**. (see fig 12)
2. Turn the rise and full control knob **(b)**, see fig 13 at the same time pressing in the Index Pin **(c)**, until it engages into one of the pre-set holes **(d)** in the rack and pinion casting. (see figs 14-15)
3. While holding the Index Pin in, tighten the tilt handle lock **(a)**, release the Index Pin. (see fig 15)

**Fig 14**



**Fig 15**



# Operating Instructions

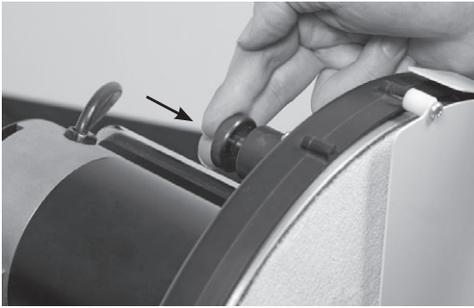
## Variable Disc Speed

The motor on this machine is a 750W DC brush type unit, electronically controlled to give a disc speed of between 1,000-3,000rpm. This means that you can choose the disc speed that is right for the job, whatever the material. Disc speed is maintained electronically to compensate for work loads.

## Manual Disc Brake

A manual disc brake is fitted to allow the disc to be stopped quickly if required. (see fig 16)

**Fig 16**



## Changing the Abrasive Disc



**DISCONNECT THE SANDER FROM THE MAINS SUPPLY!**

1. Release the two clamping handles on either side of the table and lower the table carefully and remove the extraction adaptor, see figs 17-18.

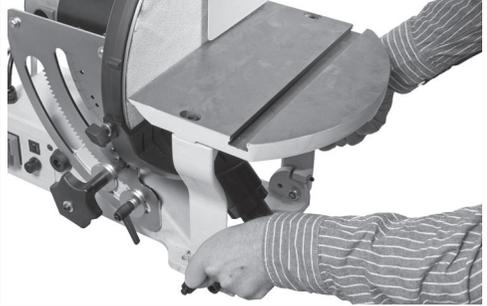
2. Loosen the two butterfly screws on either side of the extraction moulding and lower carefully down. (see figs 19-20). **(You may need to tilt the sander to lower the extraction moulding fully)**

3. Remove the disc guard by undoing and removing the two Phillips screws and place safely aside. (see fig 21)



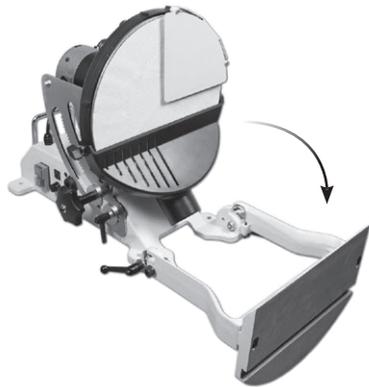
**NOTE: BE CAREFUL WHEN REMOVING THE SCREWS AS THERE ARE TWO PLASTIC SPACERS BETWEEN THE DISC GUARD AND THE REAR MOULDING!**

**Fig 17**



Undo the tables two clamping handles on either side and lower the table

**Fig 18**



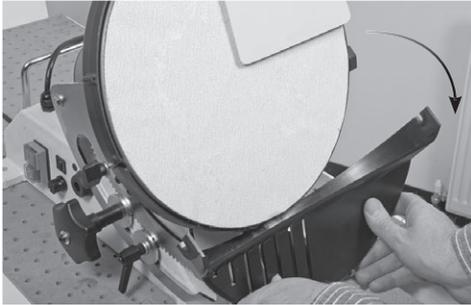
**Fig 19**



Undo the two butterfly screws on either side of the disc

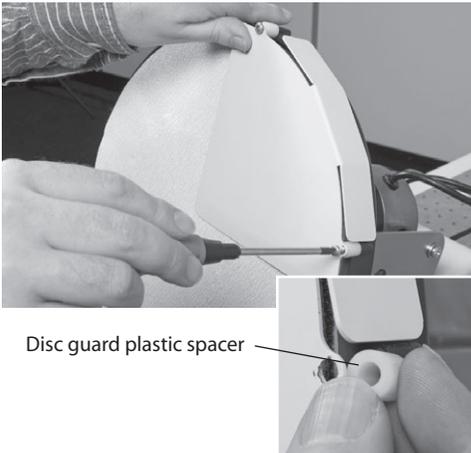
## Changing the Abrasive Disc

**Fig 20**



Lower the extraction moulding

**Fig 21**



Disc guard plastic spacer



**WEAR A DUST MASK WHEN CHANGING THE ABRASIVE DISC!**

4. The abrasive disc is attached to the sander's face by Velcro, a strip of fabric that cling when pressed together. Simply peel off the old abrasive disc, you may need to use a hand brush to brush off any loose saw dust on the disc face.

5. Line up the new abrasive disc with the face of

sanding disc and evenly press down, making sure there are no wrinkles or air bubbles. (see figs 22-23)

6. Replace the disc guard, extraction moulding and table.

**Fig 22**



Peel off the old abrasive disc and place aside

**Fig 23**



Offer up the new abrasive disc and press down evenly onto the sanding face



**CONNECT THE SANDER TO THE MAINS SUPPLY!**

Start up the sander, wait until it's at full speed and look to see if the abrasive disc is spinning evenly around. If NOT switch off, wait until the sander comes to a complete stop and repeat the procedure from the opposite page until the disc is spinning correctly.

## Maintenance



### **DISCONNECT THE SANDER FROM THE MAINS SUPPLY!**

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.



### **WEAR A DUST MASK WHEN CLEANING THE SANDER!**

1. At reasonable intervals, inspect and remove all dust and resin build up, clean the motor assembly.

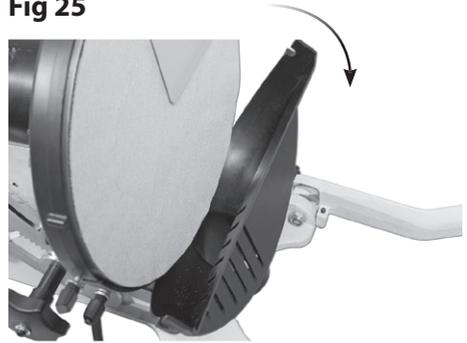
2. Lower the dust extraction moulding and remove any dust or resin build up and clean thoroughly. (see fig 24-25)

**Fig 24**



Lower the table

**Fig 25**



Lower the dust extraction moulding and clean any build up of dust or resin

PROBLEM	POSSIBLE CAUSE	REMEDY
<b>Motor will not run</b>	<ol style="list-style-type: none"> <li>1. Defective or broken "ON -OFF" switch</li> <li>2. Defective or damaged switch cord</li> <li>3. Defective or damaged switch relay</li> <li>4. Burned out motor</li> <li>5. Blown fuse</li> <li>6. Motor has cut out or stalled</li> </ol>	<ol style="list-style-type: none"> <li>1-3. Replace all broken or defective parts before using the sander</li> <li>4. Contact Axminster Tool Centre on 03332 406406 and asked to be transferred to the "Technical Enquiries" Department</li> <li>6. Press the <b>6 AMP OVERLOAD TRIP SWITCH</b></li> </ol>
<b>Machine slows down while sanding</b>	<ol style="list-style-type: none"> <li>1. Applying too much pressure to workpiece</li> </ol>	<ol style="list-style-type: none"> <li>1. Apply less pressure to sanding surface</li> </ol>
<b>Wood burns while sanding</b>	<ol style="list-style-type: none"> <li>1. Sanding disc is worn</li> <li>2. Excessive pressure being applied to workpiece</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the disc</li> <li>2. Reduce pressure being applied to workpiece</li> </ol>

## 6 AMP OVERLOAD TRIP SWITCH

Above the speed control dial there is a "6 AMP OVERLOAD TRIP SWITCH". If the sander stalls from too much pressure being applied to the disc or the motor cuts out due to overheating or over use, press this switch to reset the sander. (see fig 26)



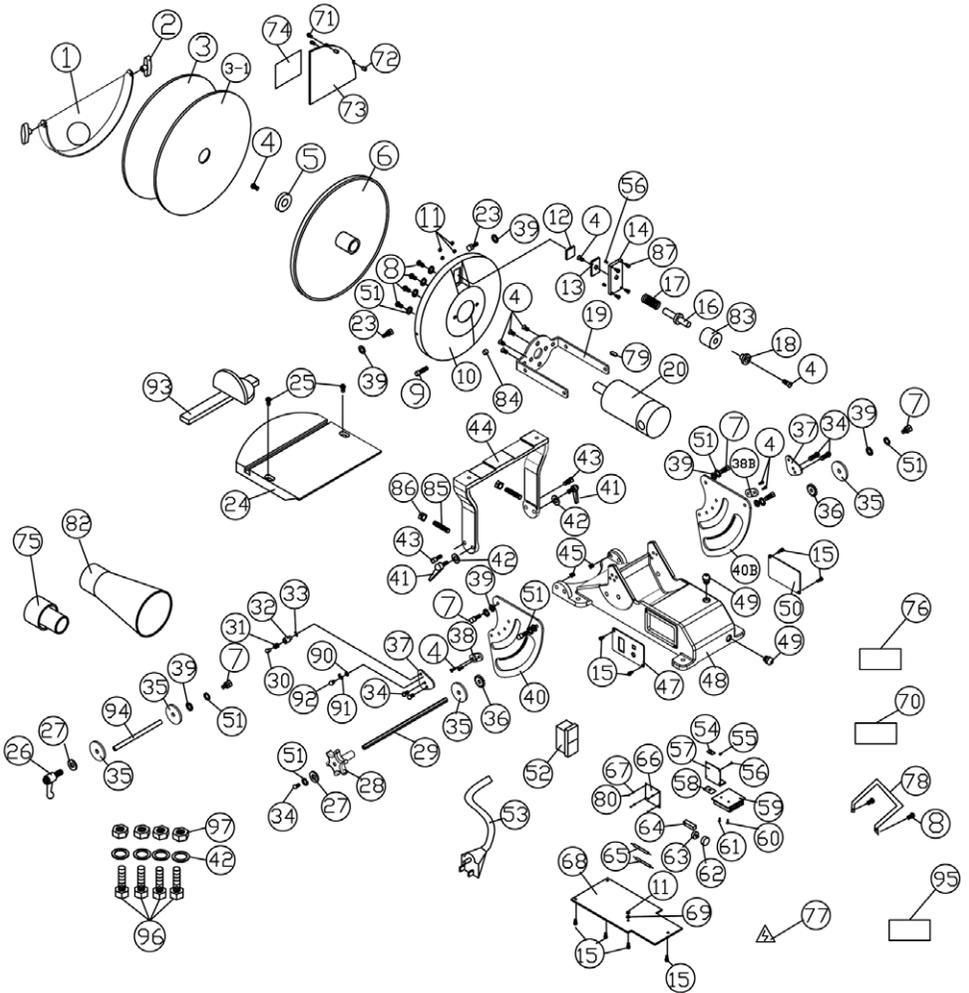
**NOTE: WAIT TWO MINUTES AFTER THE SANDER HAS STOPPED BEFORE PRESSING THE OVERLOAD TRIP SWITCH TO ALLOW THE COMPONENTS TO COOL DOWN!**

**Fig 26**



6 AMP OVERLOAD TRIP SWITCH

# Parts Breakdown/List



## Parts Breakdown/List

NO.	Description	Specification	QTY
1	Front cover		1
2	Knob	1/4"	2
3	Sanding Disc	12"-#80	1
3-1	Velcro paper		1
4	Flat HD Screw	1/4-20UNCX1/2"	11
5	Washer	1/4"-24	1
6	Disc Plate	12"	1
7	Hex Head Screw	1/4"X1/2"	6
8	Hex Socket Round HD Screw	1/4"-1/2"	7
9	Cap Screw	M4X55	1
10	Disc Tray		1
11	Nut	3/16"	5
12	Brake Wagon		1
13	Brake Plate		1
14	Fixing Plate		1
15	Flat HD Screw	3/16"X3/8"	8
16	Brake Pin		1
17	Spring		1
18	Button		1
19	Motor Support		1
20	Motor		1
23	Hex Head Screw	1/4X1"	2
24	Worktable		1
25	Cap Screw	5/16"-1"	2
26	Universal Handle	1/4"	1
27	Washer	1/4"-T=3MM	2
28	Knob		1
29	Hexagonal Rod		1
30	Index Pin		1
31	Spring		1
32	Sleeve		1
33	E-Ring	ETW-3	1

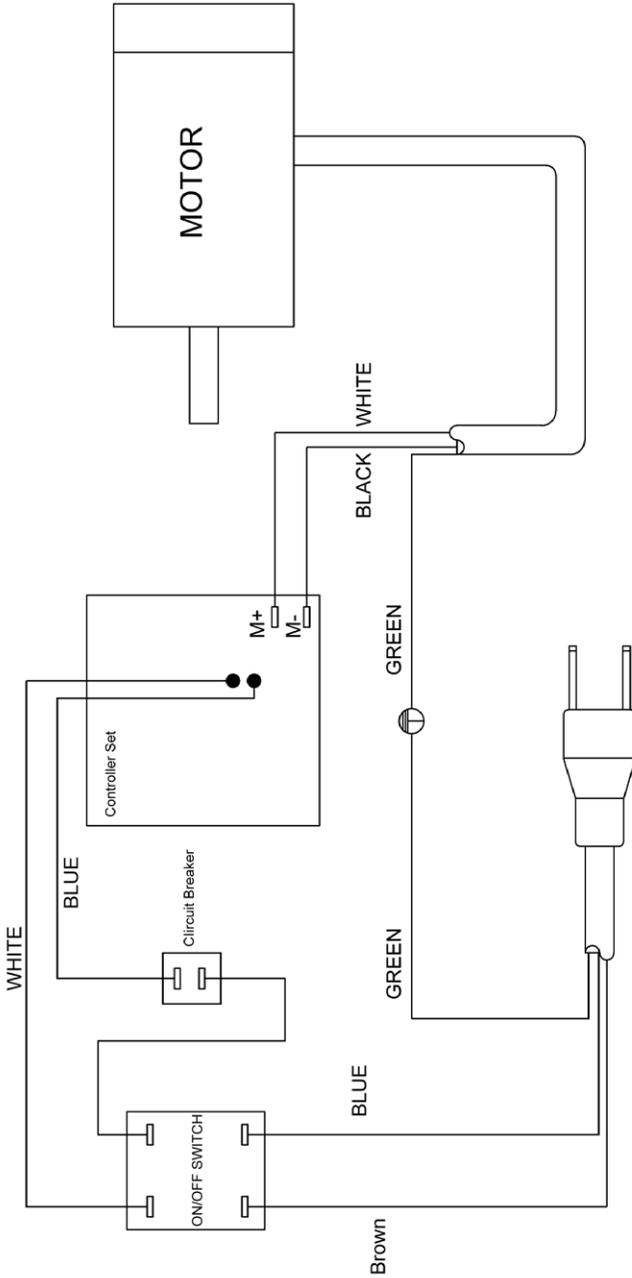
## Parts Breakdown/List

34	Hex Socket Round HD Screw	1/4"X1"	4
35	Washer		4
36	Gear		2
37	Clamping Plate		2
38	Guide Block(R)		1
38B	Guide Block(l)		1
39	Washer	1/4"	8
40	Angle Gauge Plate		1
40B	Angle Gauge Plate		1
41	Universal Handle	3/8"	2
42	Washer	3/8"	4
43	Rod		2
44	Bracket		1
45	Nut	M8	2
47	Control Panel		1
48	Base		1
49	Strain Relief	PG9	2
50	Plate		1
51	Coil Spring	1/4"	11
52	Main Switch		1
53	Power Cord		1
54	Pressure Plate		1
55	Nut		1
56	Round HD Cross Screw	M3X12mm	6
57	Circuit Board		1
58	Insulating Film		1
59	Heat Sinks		1
60	Cheese Head Screw	5/16"x3/4"	1
61	Cheese Head Screw	M4X12nn	1
62	Knob		1
63	VR		1
64	Circuit Breaker		1
65	Wire-Short		1

## Parts Breakdown/List

66	Insulating Paper		1
67	Space Block		4
68	Bottom Plate		1
69	Tooth Washer	3/16"	2
70	Warning Label		1
71	Tapping Screw	3/16"X1"	2
72	Space Block		2
73	Safety Plate		1
74	Warning Label		1
75	Dust Chute	2-1/4" to 1-1/2"	1
76	I.D. Label		1
77	Warning Label		1
78	Carry Handle		2
79	Key	6x6X25	1
80	Nut	M3	4
82	Dust Chute	2-1/4" to 4"	1
83	Guide Bush		1
84	Nylon Nut	M4	1
85	Set Screw	1/4"x35mm	2
86	Nut	1/4"	2
87	Cheese Head Screw	3/16"x1/2"	4
90	Washer	M4	1
91	Pointer		1
92	Circuit Board	M4X5	1
93	Angle Guide		1
94	Rod		1
95	Motor Label		1
96	Hex Screw	3/8"-2"	4
97	Nut	3/8"	2

# SS-12VS Wiring Diagram





# The **Axminster guarantee** is available on Hobby, Trade, Industrial, Engineer, Air Tool & Axcnc Technology Series machines

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The Guarantee assumes that you have bought the correct machine for the  
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maintained it in accordance with the instruction manual; and that all cutting  
machines will be used with a blade which is sharp and serviceable at all times.  
It does not cover consumable items purchased with the original product,  
including original blades or abrasives

Normal wear and tear, misuse, abuse and neglect are excluded and the machine  
should not have been modified in any way. Please do not attempt to service the  
product without first contacting us; we are happy to guide you but failure to do  
so may invalidate the guarantee

The Guarantee is transferrable from owner to owner in the first three years but  
you must have original proof of purchase. Should we need to replace a machine  
in the first three years the guarantee will still continue to be effective from the  
original purchase date

Full Terms and Conditions can be found here. This guarantee does not affect  
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Please dispose of packaging for the product in a responsible manner. It is suitable for recycling.  
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the appropriate recycling bin.

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implementation in accordance with national law, electric tools that have reached the end of their  
life must be collected separately and returned to an environmentally compatible recycling facility.

Axminster Tool Centre,  
Unit 10 Weycroft Avenue, Axminster, Devon EX13 5PH

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