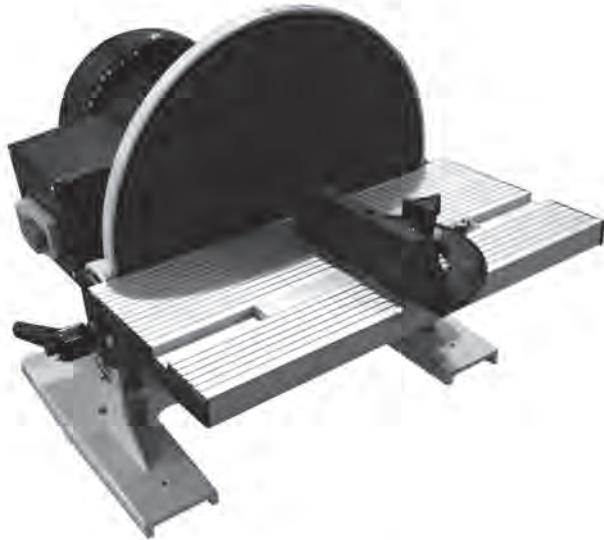


10" DISC SANDER



Assembly and Operation Instructions

Operator Safety: Required Reading

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

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

General Safety Warnings

KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications, work capabilities, and its specific potential hazards.

	⚠ DANGER ALWAYS GROUND ALL TOOLS. If your tool is equipped with a three-pronged plug, you must plug it into a three-hole electric receptacle. If you use an adapter to accommodate a two-pronged receptacle, you must attach the adapter plug to a known ground. Never remove the third prong of the plug. ALWAYS AVOID DANGEROUS ENVIRONMENTS. Never use power tools in damp or wet locations. Keep your work area well lighted and clear of clutter.
	⚠ DANGER ALWAYS REMOVE THE ADJUSTING KEYS AND WRENCHES FROM TOOLS AFTER USE. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on. ALWAYS KEEP YOUR WORK AREA CLEAN. Cluttered areas and benches invite accidents.
	⚠ DANGER ALWAYS KEEP VISITORS AWAY FROM RUNNING MACHINES. All visitors should be kept a safe distance from the work area. ALWAYS MAKE THE WORKSHOP CHILDPROOF. Childproof with padlocks, master switches, or by removing starter keys.
	⚠ DANGER NEVER OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, MEDICATION, OR ALCOHOL.
	⚠ DANGER ALWAYS WEAR PROPER APPAREL. Never wear loose clothing or jewelry that might get caught in moving parts. Rubber-soled footwear is recommended for the best footing.
	⚠ DANGER ALWAYS USE SAFETY GLASSES AND WEAR HEARING PROTECTION. Also use a face or dust mask if the cutting operation is dusty.
	⚠ DANGER NEVER OVERREACH. Keep your proper footing and balance at all times.
	⚠ DANGER NEVER STAND ON TOOLS. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

	⚠ DANGER ALWAYS DISCONNECT TOOLS. Disconnect tools before servicing and when changing accessories such as blades, bits, and cutters. ALWAYS AVOID ACCIDENTAL STARTING. Make sure switch is in "OFF" position before plugging in cord. NEVER LEAVE TOOLS RUNNING UNATTENDED.
	⚠ DANGER ALWAYS CHECK FOR DAMAGED PARTS. Before initial or continual use of the tool, a guard or other part that is damaged should be checked to assure 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 damaged parts should immediately be properly repaired or replaced.

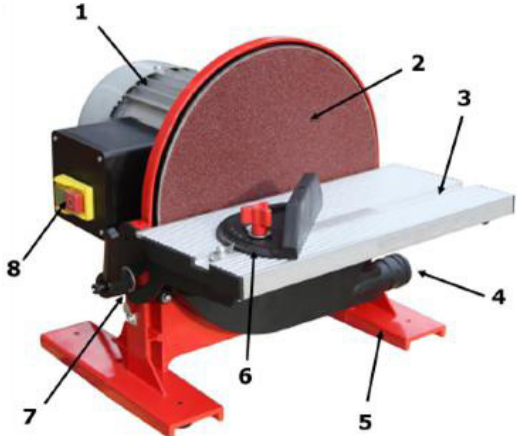
Special Safety Rules For Disc Sanders

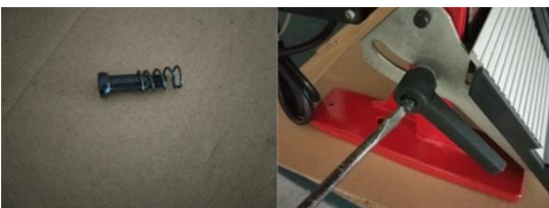
1. Do not operate this machine until you have read all of the following instructions.
2. Do not attempt to operate this machine until it is completely assembled.
3. Do not turn ON this machine if any pieces are missing.
4. If you are not familiar with the operation of the machine, obtain assistance from a qualified person.
5. It is highly recommended that this machine be firmly mounted to a flat and secure work surface or stand.
6. Always wear protective eyewear prior to operating this machine.
7. Do not operate this machine if you are under the influence of drugs and/or alcohol.
8. Remove all jewelry prior to operating this machine.
9. Do not wear any gloves while operating this machine.
10. Always make sure the power switch is in the OFF position prior to plugging in the machine.
11. Always make sure the power switch is in the OFF position when doing any assembly or setup operation.
12. Always wear a dust mask and use adequate dust collection and proper ventilation. Use of sanders can produce harmful particles while sanding certain types of woods.
13. The use of any accessories or attachments not recommended may cause injury to you and damage your machine.
14. This machine must be properly grounded.
15. Abrasive discs should be the recommended diameter of the manufacturer.
16. Always keep your face and hands clear of moving parts such as belts and pulleys.
17. Keep power supply cords free of moving parts of the sander. Damaged cords can result in electric shock.
18. Maintain a 1.5mm clearance between the sanding disc and table.
19. Always support the workpiece with the table.
20. Remove material or debris from the work area. Keep work area neat and clean.
21. Keep these instructions for future reference.

Specifications

Motor	
Power	550W
Amps	4.2A
Volts	120V~60Hz
Disc	
Diameter	250mm
Speed	1750rpm
Table	
Size	300x140mm
Tilt	45° Up and Down
Miter Gauge	Included
Miter Gauge Slot	10x20mm
Overall	
Height	310mm
Width	330mm
Length	400mm
Base Size	320x220mm
Net Weight	10kg
Shipping Weight	11kg
Shipping Carton	375x360x345mm
Warranty	6 months

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to some area in the world to cause cancer and birth defects or other reproductive harm. Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

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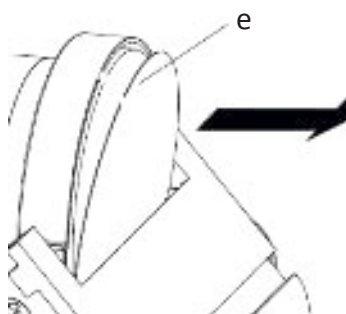
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1 Introduction

Intended Use

This manual contains information and important instructions for the installation and correct use of the Disc Sander (142009). The sander disc is intended for the sanding of wood for non-commercial woodworking activities. The commercial name of the device (see cover) is substituted with the name "machine" in this manual.

Please read and follow the safety instructions!

Before first use, read this manual carefully. It will familiarise you with the correct use of the product and prevent any misunderstanding, and avoid any damage to the product and the user's health.

2 Symbol clarification

Disposal

Do not dispose of electrical appliances with your domestic waste! According to the European Directive 2012/19/EU, concerning used electrical and electronic appliances and its implementation in national law, superannuated electrical appliances must be collected and disposed of via an environmentally suitable recycling facility.

See image 1

3 Parts list

See image 4

1	Motor	5	Base
2	Sanding Disc	6	Mitre gauge
3	Work table	7	Angle adjustment
4	Dust collector connection	8	On-Off-switch

4 Assembly instructions

See image 5

1. Mounting and setting up. Ensure that the machine is disconnected from the mains. Open the box.
2. Ensure that no parts are missing.
3. Fit locking handles on each side of the table.
4. Fasten the locking handle using the locking bolt and the spring. Do not over tighten.
5. Set the table to a horizontal position. Check the pointer to the 0° scale, tighten both locking handles.
6. Mounting and setting up. Make sure that the machine is

disconnected from the mains socket. Fit the locking handles on each side of the table using a washer, locking bolt, locking handle, a spring and a screw through the angle bracket underneath the table. Set the table in the horizontal position, tighten both locking handles. Secure the machine to a firm surface using bolts (not included) through the four mounting holes. The machine must be placed on the level surface to avoid any vibration during use.

5 Operation Guide

Check if all parts according to the parts list are included and without damage as soon as the machine is delivered/purchased. Each visible defect and in particular wrong amounts and transport damages must be clearly noted on the delivery documents. Otherwise, the goods shall be considered as taken and fully accepted under the sole responsibility of the customer.

- Warning: Perform all machine settings with the machine disconnected from the power supply! Always use the correct type of sandpaper disc according to the type of work. Keep hands and tools clear of the sandpaper disc when in use.
- Attention: Please observe the following operating instructions so that their work can be performed safely and has the expected results.

5.1 Notice

1. Check before starting work
 - All cables and plugs.
 - Table and safety fence on tight fit.
 - The free and centred run of the sanding disc.
2. The sanding
 - Always use proper abrasives in working condition. (Change worn down abrasives immediately!) With the abrasive in good condition, you will obtain a good grinding result.
 - Do not exert too much pressure on the sanding abrasive.
 - The maximum distance between the table and the sanding disc: 2mm!
 - The machine has no clamping opportunity, so it is important to steady the work-piece on the worktable and maintain a firm grip!

The connection of the machine to the electric power supply and the following checks must be carried out by a trained electrician only.

- 1) The electronic connection of the machine is designated for operation with a grounded power socket.
- 2) The mains supply must be secured with a 16A circuit breaker.

- 3) If the connector plug doesn't fit or if it is defective, only qualified electricians may modify or replace it.
- 4) The grounding wire should be connected to green-yellow.
- 5) A damaged cable must be replaced immediately.
- 6) After connecting, check the correct running direction.
- 7) Make sure that a possible extension cord is in good condition and suitable for the transmission of power. An undersized cord reduces the transmission of power and heats up.
- 8) A damaged cable must be replaced immediately.

5.2 Operation

See image 6

1. On/Off
 - To turn the machine ON, press "I" (green).
 - To turn the machine OFF, press "O" (red).
2. Table
 - To tilt the worktable loosen the quick release, bring the work table to the desired position and tighten the quick release again.
 - Use a protractor to set it at exactly 90°.
3. Mitre gauge
 - The metre gauge is provided for use on the grinding table.
 - The metre gauge can be used for angles of up to 45°, to the left or right, by releasing the locking button and adjusting

the metre gauge to the desired angle. The button must be tightened again.

4. Dust collection connection
 - The machine is equipped with a dust collector plug with a diameter of 35 mm.
 - Always use a suitable dust collector (e.g., vacuum cleaner)!

6 Maintenance and cleaning

⚠ Attention: Don't clean or do maintenance on the machine while it is still connected to the power supply. The machine may be damaged and injuries might occur due to the unintended switching on of the machine! Therefore, switch the machine OFF and disconnect it from the power supply before any maintenance works or cleaning is carried out.

The machine does not require extensive maintenance. If malfunctions and defects occur, contact a qualified technician only. Before the first operation as well as after every 100 operation hours, you must lubricate all connecting parts (if required, remove all debris and dust with a brush beforehand). Check the condition of the security labels regularly. Replace them if required. Check the condition of the Sanding Disc regularly. Store the machine in a locked, dry location.

6.1 Troubleshooting

Before you start checking for defects by elimination disconnect the machine from power supply.

Problem	Possible cause	Solution
The machine stops or will not start.	• ON/OFF switch is damaged. • Grinder unplugged - Overload tripped. • Fuse has blown or circuit breaker tripped. • Cord damaged.	• Check the switch. • Check all power connections. • Allow motor to cool down and reset by pushing OFF switch. • Change fuse or reset the circuit breaker. • Change cable.
The machine slows down while working.	• Exerting too much pressure on the sanding disc.	• Exert less pressure on the work-piece/sanding disc.
Bad grinding results.	• Abrasive too coarse. • Grained.	• Use a less coarse abrasive.
Rapid wear of the abrasive.	• Abrasive too fine. • Grained.	• Use a more coarse abrasive.
Grinding angle is wrong.	• Adjusted angle is wrong.	• Readjust the angle.
Sanding disc runs out of round.	• Sanding disc is not centrally mounted.	• Mount the sanding disc centrally.
Work-piece burns during the working process.	• Abrasive is dirty with oil.	• Change abrasive.

	• Too much pressure.	• Reduce pressure.
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Many potential sources of malfunctions can be cleared by a proper connection to the electrical grid.

6.2 Maintenance plan solution.

- After each work shift: Remove chips and sanding dust from the device. After 10 hours of operation: Check all screw connections and tighten if necessary.

6.3 Changing grinding disc

- If the grinding disc (e) is worn, pull it off the grinding plate. Place the new disc with suitable adhesive on the centre and push it onto the grinding plate. Remove the grinding disc if it does not run circularly. Readjust it.

See image 7

6.4 Storage

- Store the machine in a clean and dry, away from the reach of children.

6.5 Cleaning

- Clean the machine after each work shift. Remove chips, dust, etc. with a suitable tool. Do not remove them by hand (cutting injury!).

6.6 Notice

- Clean your machine regularly after every usage. It prolongs the machines operating life and is a prerequisite for a safe working environment.
- Repair jobs must be performed by properly trained professionals only!
- The usage of certain solutions containing ingredients damaging to metal surfaces as well as the use of scrubbing agents will damage the machine surface!
- Clean the machine surface with a wet cloth soaked in a mild

Electrical Requirements

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 tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. 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 a 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 tool is properly grounded.

Use only three wire extension cords that have three-prong grounding plugs and three-pole receptacles that accept the tool's plug.*

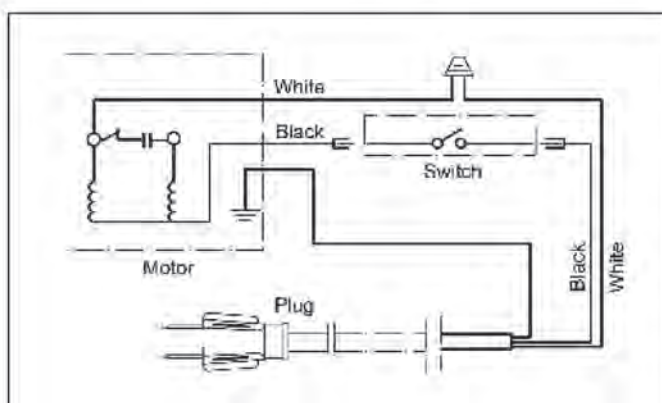
Repair or replace a damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks the one illustrated in Figure A below. The tool has a grounding plug that looks like the grounding plug as illustrated in Figure A below. A temporary adapter, which looks like the adapter as illustrated in Figure B below, may be used to connect this plug to a two-pole receptacle, as shown in Figure B if a properly grounded outlet is not available.** The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

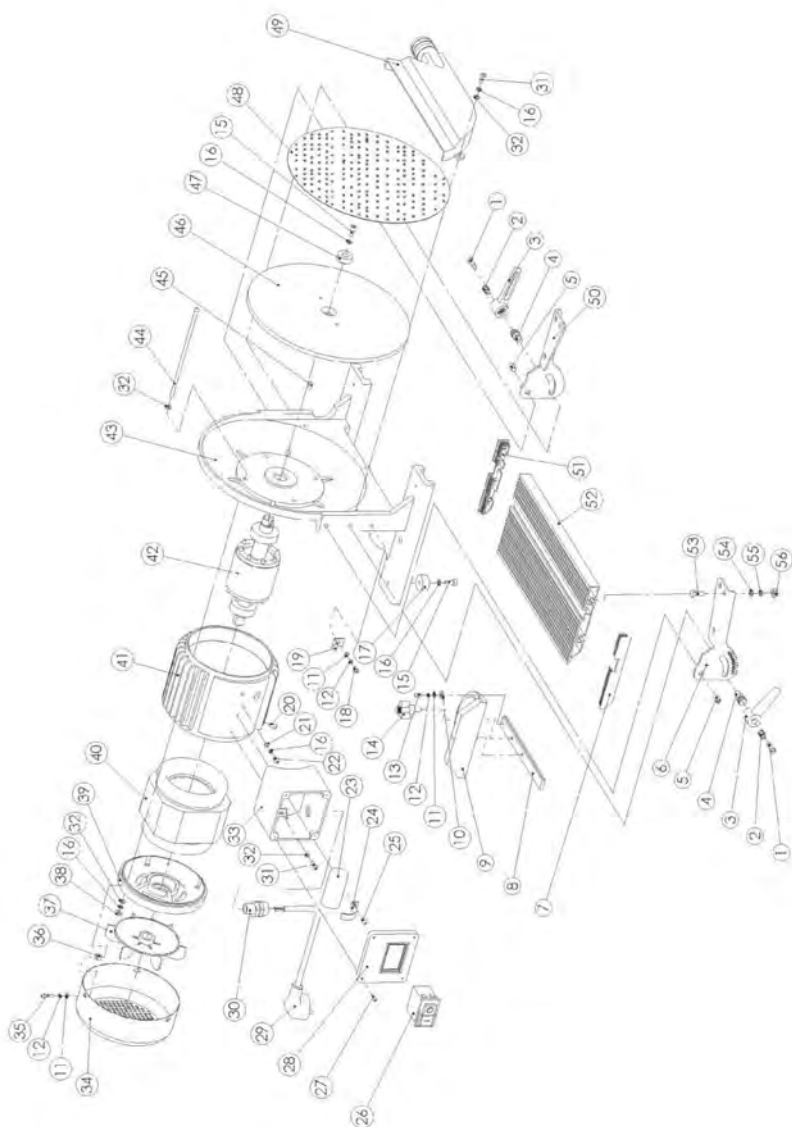
Troubleshooting

Trouble	Possible Cause	Solution
Sander will not start	1. Sander unplugged from wall or motor 2. Fuse blown or circuit breaker tripped 3. Cord damaged	1. Check all plug connections 2. Replace fuse or reset circuit breaker 3. Replace cord
Sanding disc does not come up to speed	1. Extension cord too tight or too long 2. Low current	1. Replace with adequate size and length cord 2. Contact a qualified electrician
Machine vibrates excessively	1. Stand or base on uneven surface	1. Adjust stand or base so that it rests evenly on the floor 2. Bolt down
Sanded edge not square	1. Table not square to sanding disc	1. Use a square to adjust table to sanding disc
Sanding marks on wood	1. Work held still 2. Wrong grit sanding disc 3. Feed pressure too great 4. Sanding against the grain	1. Keep work piece moving 2. Use coarser grit for stock removal and fine grit for finish sanding. 3. Never force workpiece 4. Sand with the grain

Wiring Diagram



exploded view



Spare Parts List

No.	Description	Q'ty	No.	Description	Q'ty
1	Screw	2	29	Cord Plug	1
2	Spring	2	30	Wire Grip	1
3	Table Handle	2	31	Screw	5
4	Table Screw	2	32	Flat Washer	10
5	Screw (A)	2	33	Terminal Box	1
6	Left Table Bracket	1	34	Fan Cover	1
7	End Cap (B)	1	35	Screw	3
8	Gauge Sliding Bar	1	36	Gasket Washer	3
9	Miter Gauge	1	37	Fan	1
10	Pointer	1	38	Nut	4
11	Flat Washer	4	39	End Cover	1
12	Elastic Washer	4	40	Stator	1
13	Screw M4X10	1	41	Motor housing	1
14	Locking Knob	1	42	Rotor	1
15	Cap Screw M5X12	5	43	Machine Frame	1
16	Elastic Washer	12	44	Screw	4
17	Rubber Feet	4	45	Flat Key	1
18	Cross Screw	1	46	Backing Disc	1
19	Pointer	1	47	Washer	1
20	Cross Screw	1	48	Sanding Disc	1
21	Toothed Washer	1	49	Dust Cover	1
22	Screw	1	50	Right Table Bracket	1
23	Capacitor	1	51	End Cap (A)	1
24	Capacitor Clip	1	52	Worktable	1
25	Screw	1	53	Bolt	6
26	Switch	1	54	Flat Washer	6
27	Screw	4	55	Elastic Washer	6
28	Switch plate	1	56	Nut	6