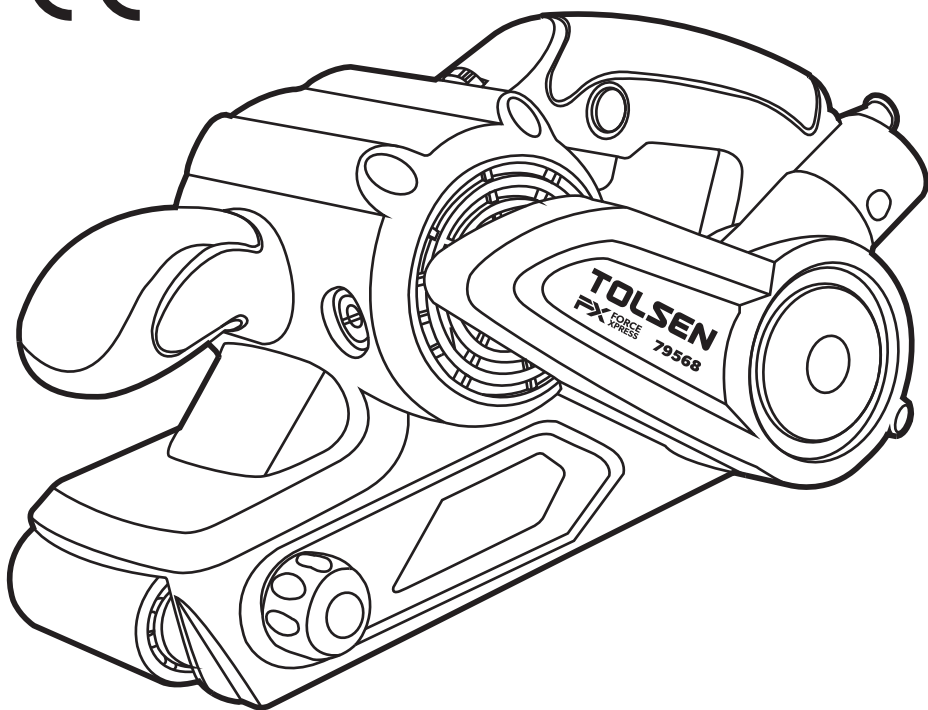


TOLSEN **FX** FORCE XPRESS

79568 BELT SANDER

INSTRUCTION MANUAL

230V~50Hz 810W



SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

General Power Tool Safety Warnings

⚠WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a Ground Fault circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

Personal safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. use personal protective equipment. always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. if devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

9. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
10. Avoid unintentional starting. Prepare to begin work before turning on the tool.
11. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
12. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
13. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
14. This product is not a toy. Keep it out of reach of children.
15. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with Trigger locked on.
 - Properly maintain and inspect to avoid electrical shock.
 - Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
16. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Power tool use and care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
2. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact TOLSEN Tools for a replacement.

Belt sander and drum sander safety warnings

Hold the power tool by insulated gripping surfaces, because the sanding surface may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
7. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
8. To reduce vibration, maintain the tool as explained in this manual.
If any abnormal vibration occurs, stop use immediately.

SPECIFICATIONS

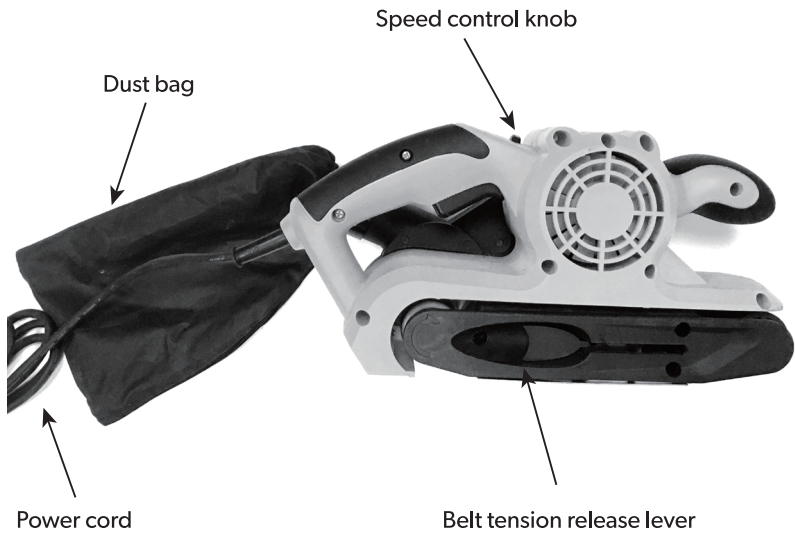
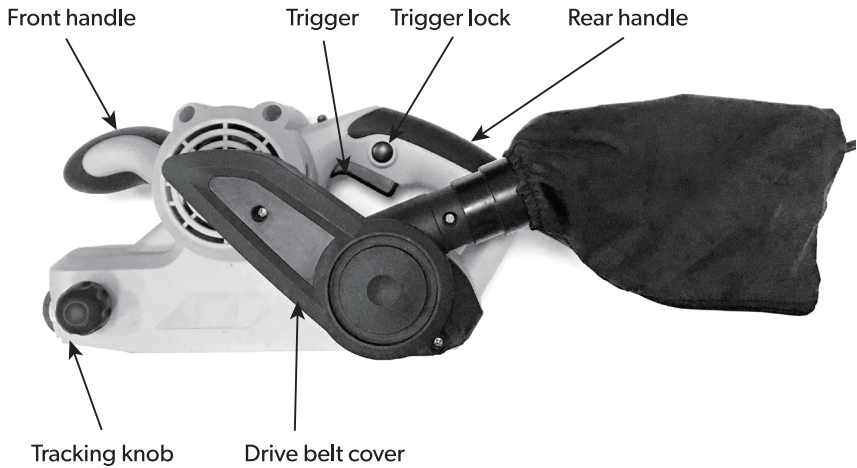
Electrical Rating	230VAC, 50Hz, 810w
Belt Size	533x76mm
No load speed	200-380m/min



SETUP - BEFORE USE

 Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Functions



Operating Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

⚠️ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

1. Secure the Dust Bag to the tool.
2. Before use, make sure that the Sanding Belt is on-center. To check this, plug in the Sander and hold the Belt clear while carefully turning it on. If the Belt moves to one side or the other during use, turn the Tracking Knob until it stays on-center.

Workpiece and work area set up

1. Workpiece selection: a. Workpiece must be free of foreign objects. b. Wear a NIOSH-approved respirator and have appropriate ventilation whenever sanding pressure-treated lumber.
2. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury
3. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
4. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
5. There must not be objects, such as utility lines, nearby that will present a hazard while working.

General instructions for use

1. Hold Sander using Front Handle and Rear Handle only.
2. Make sure that the Trigger is in the off-position, then plug in the tool.
3. To start the tool, squeeze the Trigger; release the Trigger to stop.
4. For continuous operation squeeze the Trigger and push the Trigger Lock to lock the tool on. To disengage the Trigger Lock and allow the tool to turn off, squeeze the Trigger once and then release.
5. Adjust the Sander speed to suit different working material. Turn the Speed Control Knob to a higher number for a faster speed or to a lower number for a slower speed. Determine the optimum speed by testing on a scrap piece of material.
6. When sanding, use both hands to hold the tool and sand along the grain for best results.
7. Hold the tool lightly on the workpiece and allow the tool to do the work. Do not push down on the Belt Sander or move it along the surface too fast.
8. To prevent accidents, turn off the tool and unplug it after use. Clean, then store the tool indoors out of children's reach.

NOTE: Using the correct speed for the job increases the life of the tool.

Maintenance and Servicing instructions



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

- BEFORE EACH USE, inspect the general condition of the tool. Check for:
 - loose hardware
 - misalignment or binding of moving parts
 - damaged cord/electrical wiring
 - worn or torn sanding belt
 - cracked or broken parts
 - any other condition that may affect its safe operation.
 - After use, wipe external surfaces of the tool with clean cloth.
 - Regularly check to see if any dust or foreign matter has entered the tool's air vents near the motor and around the trigger. Keep the vents unclogged and clean at all times.
 - When a sanding belt tears or becomes worn, it must be replaced:
 - Always turn the tool off and unplug it before changing the belt.
 - Pull out the Belt Tension Release Lever and push it forward until it locks into place.
 - Remove the old belt and replace with a new 3" x 21" belt. Make sure the arrows on the inside of the new sanding belt are pointing in the direction of rotation as indicated on the housing of the tool.
 - Push the Belt Tension Release Lever back in to secure the belt in place.
 - Make sure the new belt is on-center before use.
 - To replace a worn or broken Drive Belt:
 - Make sure the tool is turned off and unplugged before changing the belt.
 - Remove the two cover mounting screws holding the Drive Belt Cover in place.
 - Remove the Drive Belt Cover.
 - Take out the worn or broken belt and install a new belt by sliding it around the Large and Small Belt Pulleys.
 - Replace the Drive Belt Cover and secure it in place with the cover mounting screws.
 - Carbon brush maintenance.

The Carbon Brushes may require maintenance when the motor performance of the tool decreases or stops working completely. Carbon brushes are internal to the Motor Housing, and should only be replaced by a qualified service technician.

 - To replace brushes, remove the Carbon Brush Cover with a screwdriver. Then remove Carbon Brush from Brush Holder.
 - Insert new Carbon Brush into Holder, replace the Carbon Brush Cover and tighten with a screwdriver. Make sure the carbon portions of the Carbon Brushes contact the motor armature, and that the springs face away from the motor.
 - When replacing Carbon Brushes both brushes must be replaced. Repeat steps "a" and "b" for the second brush.
- NOTE:** New carbon brushes tend to spark when first used until they wear and conform to the motor's armature.
- WARNING!** If the plug or the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

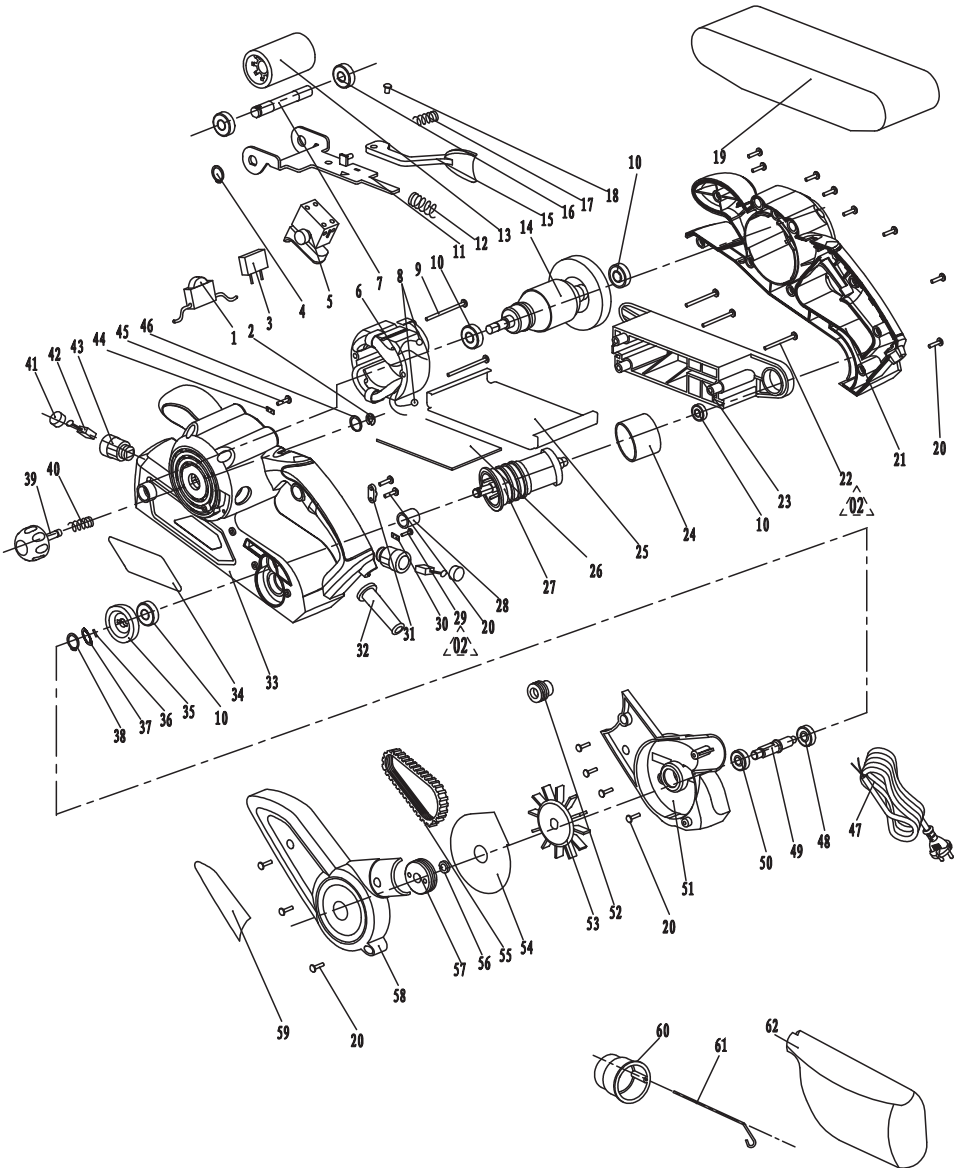
TROUBLESHOOTING

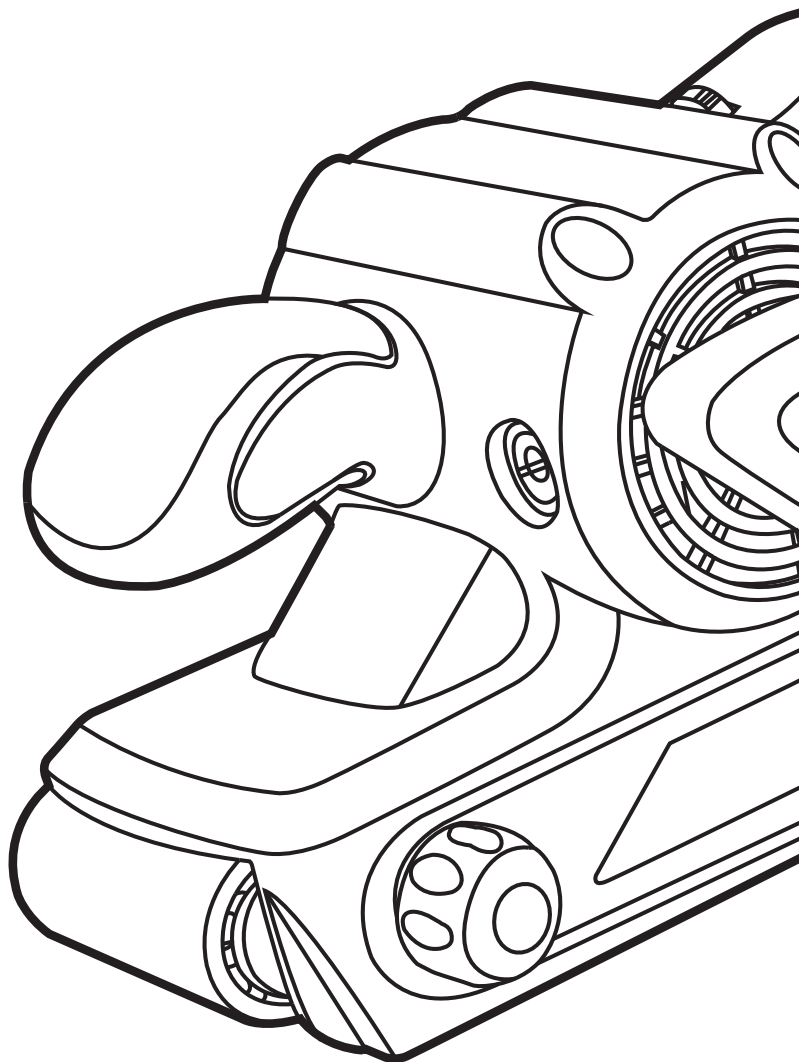
Problem	Possible Causes	Likely Solutions
Tool will not start	<ol style="list-style-type: none"> 1. Cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or Trigger, for example.) 	<ol style="list-style-type: none"> 1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly	<ol style="list-style-type: none"> 1. Forcing tool to work too fast. 2. Extension cord too long or cord diameter too small. 	<ol style="list-style-type: none"> 1. Allow tool to work at its own rate. 2. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.
Performance decreases over time	Carbon brushes worn or damaged.	Have qualified technician replace brushes.
Motor runs but sanding belt does not rotate	Broken drive belt.	Have qualified technician replace drive belt.
Excessive noise or rattling	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating	<ol style="list-style-type: none"> 1. Forcing tool to work too fast. 2. Blocked motor housing vents. 3. Motor being strained by long or small diameter extension cord. 	<ol style="list-style-type: none"> 1. Allow tool to work at its own rate. 2. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 3. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.

PARTS LIST

part	Description	Qty	part	Description	Qty
1	Speed controller	1	32	cable jacket	1
2	Blocking ring	1	33	Left housing	1
3	Capacitance	1	34	brand label	1
4	Blocking ring 10	1	35	Column melt 3×16	1
5	Switch	1	36	round pin	1
6	Stator	1	37	washer 8	1
7	Bearing	1	38	washer 8	1
8	Tension spring φ12	2	39	adjustable knob	1
9	Screw ST4.2×45-F	2	40	spring	1
10	Bearing	4	41	carbon brush cover	1
11	Tension supporting	1	42	carbon brush	2
12	Tension spring φ11.5×φ2×6	1	43	brush holder	2
13	Tension wheel	1	44	ceramic chip	1
14	Rotor	1	45	screw	1
15	Tension pole	1	46	wahser	1
16	Bearing 6000-2Z	2	47	cable	1
17	Reset spring φ5.4×φ1.2×8	1	48	bearing 626	1
18	Rivet 6×10	1	49	axis	1
19	BELT	1	50	bearing 6900-2Z	1
20	Screw ST4.2×14-F	17	51	dust base	1
21	Right housing	1	52	small drawing wheel	1
22	Screw ST4.2X30	3	53	fan	1
23	Bracket base	1	54	fan cover	1
24	Rubber washer	1	55	belt	1
25	Baseplate	1	56	washer 10	1
26	wollen washer	1	57	big wheel	1
27	drawing whee	1	58	belt cover	1
28	Oil bearing	1	59	SPEC label	1
29	screw ST2.9	1	60	Dust pipe	1
30	ceramic chip	1	61	Supportting steel-wire	1
31	cable presser	1	62	Dust bag	1

ASSEMBLY DIAGRAM





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