



POWERFUL LONG-THROW RANDOM ORBIT POLISHER
Variable Speed Dual-Action Polisher and Sander with LED Screen
for OPM Display and Operation Controls

DUR P9519



Approximate Speed Settings on LED Display Screen

<u>Setting</u>	<u>Speed</u>	<u>Usage</u>
1:	2000 OPM	Waxing & Buffing
2:	2500 OPM	Waxing & Buffing
3:	3000 OPM	Polishing & Cleaning
4:	3500 OPM	Polishing & Cleaning
5:	4000 OPM	Removing Paint Defects & Oxidation
6:	4800 OPM	Removing Paint Defects & Oxidation



RANDOM ORBITAL ACTION

Pad oscillates and rotates on varying orbits

**SAFETY & OPERATING
INSTRUCTION MANUAL**



WARNING: indicates a potentially hazardous situation which may result in death or serious injury and/or property damage.



CAUTION: Indicates a potentially hazardous situation which may result in minor or moderate injury and/or property damage.

NOTICE: Indicates a potentially hazardous situation, which may result in minor or moderate injury and/or property damage.

GENERAL POWER TOOL SAFETY WARNINGS



WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions 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.

1) WORK AREA SAFETY

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

2) ELECTRICAL SAFETY

- | | |
|--|--|
| a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. | d) 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. |
| b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded. | e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of an extension cord suitable for outdoor use reduces the risk of electric shock. |
| c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock. | f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock. |

3) PERSONAL SAFETY

- | | |
|--|---|
| a) 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. | c) 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. |
| b) 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. | d) 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. |

- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) 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 get caught in moving parts
- g) 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.

4) POWER TOOL USE AND CARE

- a) 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.
- b) 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.
- c) Disconnect the plug from the power source and/or the battery pack 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.
- d) 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.
- e) Maintain power tools. 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.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits 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.

5) SERVICE

- a) 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.

ADDITIONAL SAFETY INSTRUCTIONS

1. This tool is designed to be used as a polisher and as a sander. Read all the warnings, instructions and indications provided on drawings and specifications supplied with this tool. Failure to comply with all the instructions provided may cause electrical shock, fire and/or serious injuries.
2. This tool is not intended to be used for metal brushing and cutting operations. The use of this tool for unintended applications may cause hazards and injuries to people.
3. The tool must be used with accessories that have been specifically designed or recommended by the manufacturer. Affixing accessories to the tool does not guarantee a safe operation; read the following additional instructions.
4. The rated speed of the accessories must be at least equivalent to the maximum speed specified on the tool. Using the accessories at speeds above the rated one, may cause them to break or be projected into the air.
5. The external diameter and thickness of the accessories must match the specifications of the tool. Accessories with incorrect dimensions cannot be adequately protected or controlled.
6. The configuration of accessories must match the tool. The use of accessories that cannot be perfectly fitted on the tool may result in imbalance, excessive vibrations and loss of control of the tool.
7. Do not use damaged accessories. Before use, inspect all the accessories. Inspect the supporting pads and verify there are no cracks, tears or excessive wear. If the tool or accessory

has fallen, verify that they are not damaged or install a new accessory. After inspecting or installing an accessory, test the operation of the tool at maximum speed and without load for one minute, keeping at a safety distance. If the accessories are damaged, they will break during this test

8. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
9. Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Frag merits of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
10. Hold power tool by insulated surfaces only when performing an operation where the

cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

11. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
12. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
13. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
14. Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
15. Do not operate the power tool near flammable materials. Sparks could ignite these materials.
16. Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

FURTHER SAFETY INSTRUCTIONS FOR ALL OPERATIONS

KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if a polishing pad or sanding disc is snagged or pinched by the workpiece, the edge of the pad or disc that is entering into the pinch point can dig into the material causing the pad or disc to climb out or kick out. The pad or disc may either jump toward or away from the operator depending on direction of the pad's or discs movement at the point of pinching. Polishing pads and sanding discs may also break under these conditions.

Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

- 1) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over

kickback or torque reaction during start up. The operator can control torque reaction or kickback forces, if proper precautions are taken.

- 2) Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- 3) Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- 4) Use special care when working corners and sharp edges. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- 5) Do not attach a saw chain, woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.
- 6) Do not use excessively oversized sanding discs. Sanding discs extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of disc, or kick-back.

ADDITIONAL SPECIFIC SAFETY INSTRUCTIONS FOR POLISHER/SANDERS


- Always use eye protection. All user and bystanders must wear eye protection that conforms to Z87.1.
- Clean out your tool often, especially after heavy use. Dust and grit containing metal particles often accumulate on interior surfaces and could create an electric shock hazard.
- Do not operate this tool for long periods of time. Vibration caused by the operating action of this tool may cause permanent injury to fingers, hands and arms. Use gloves to provide extra cushion, take frequent rest periods and limit daily time of use.
- Air vents often cover moving parts and should be avoided. Loose clothes, jewelry or long hair can be caught in moving parts.
- An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. An undersized cord will cause a drop

in line voltage resulting in loss of power and overheating. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.


Minimum Gauge for Cord Sets


Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals work in a well ventilated area and work with approved safety equipment such as those dust masks that are specially designed to filter out microscopic particles.

- **Avoid prolonged contact with dust from polishing. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals**


 **WARNING:** ALWAYS use safety glasses. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty.
ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT:


- ANSI Z87.1 eye protection (CAN/CSA Z94.3)
- ANSI S12.6(S3.19) hearing protection,
- NIOSH/OSHA/MSHA respiratory protection.

 **WARNING:** Always wear proper personal hearing protection that conforms to ABSI S12.6 (S3.19) during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.


 **WARNING:** Some dust created by polishing contains chemicals known to the state of California to cause cancer birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica,
- Arsenic and chromium from chemically-treated lumber.


 **WARNING:** Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.


 **CAUTION:** Use extra care when working into a corner because a sudden, sharp movement of the polisher may be experienced when the polishing pad or other accessory contacts a secondary surface or a surface edge.

FAILURE TO START

 **CAUTION:** Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also check for blown fuses or open circuit breakers in the line.


REPLACING THE POLISHING PAD OR SANDING DISC

 **CAUTION:** Pull the used polishing pad or sanding disc off and apply the new one pressing it onto the backing plate.

 **CAUTION:** Accessories must be rated for at least the speed recommended on the tool warning label. Accessories running over rated speed can fly apart and causes injury. Accessory ratings must always be above tool speed as shown on tool name plate

MODEL	P9519
POLISHING FOAM PADS	6" (150 mm) and 5" (125 mm)
BACKING PLATE PADS	6" (150 mm) and 5" (125 mm)
ORBIT	3/8" (9 mm)
POWER Watts	1000W
OPM	2000-4800
WEIGHT kgs	2.8
CONSTANT SPEED CONTROL	YES
PROTECTION CLASS	II
OPERATING VOLTAGE	120V-60HZ


ASSEMBLY INSTRUCTIONS

 **WARNING:** Before mounting or replacing application tools or accessories, pull the power plug. This preventive safety measure rules out the danger of injuries through accidental starting of the power tool.


MOUNTING THE AUXILIARY SIDE HANDLE, AND D-HANDLE

Screw the auxiliary side handle tightly onto the left or right side of the power tool, depending on the working method. Mount the gear housing cover onto the gear case, put on the D-handle and tighten with screws.

OPERATING INSTRUCTIONS

 **WARNING:** Before mounting or replacing application tools or accessories, pull the power plug. This preventive safety measure rules out the danger of injuries through accidental starting of the power tool.

SWITCHING ON and OFF

 **WARNING:** First check that the power cord and plug are not damaged. **CAUTION:** Always hold the power tool firmly, otherwise, you could lose control over the power tool.

SWITCHING ON

To start the polisher, squeeze the ON/OFF trigger switch to power it ON. The motor will start and take a few moments to reach full operating speed. This is the soft-start function that allows you to spread the polish on the surface to be polished slowly before the polisher reaches full operating speed.

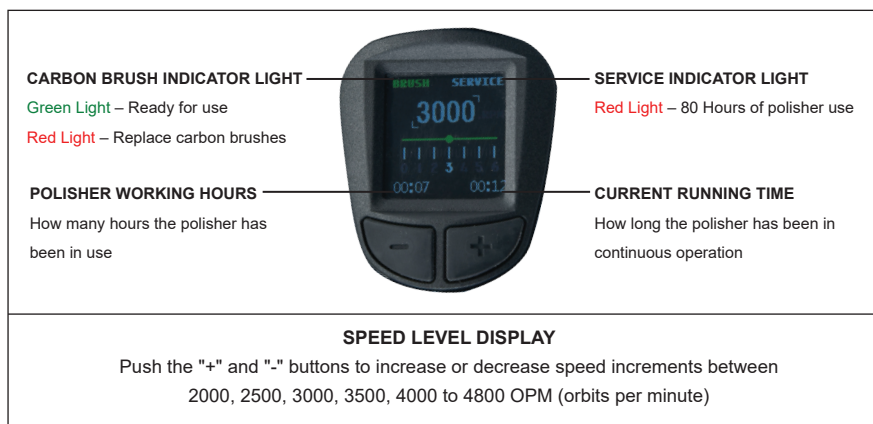
OPERATING THE LOCK-ON FUNCTION

If you want to operate the polisher in the LOCKED-ON position, press the lock button whilst squeezing the ON/OFF trigger switch, thus locking the switch in the ON position.

SWITCHING OFF

To turn the polisher OFF, release the ON/OFF trigger switch. If the ON/OFF trigger switch is in the LOCKED-ON position, squeeze the trigger switch to release the lock button, then release the trigger to stop the machine. **WARNING: Always wait until the machine has come to a complete standstill before putting it down.**

LED CONTROL PANEL DISPLAY SCREEN



SETTING THE SPEED

The speed can be variably adjusted by pushing the "+" and "-" buttons to increase or decrease speed increments between 2000, 2500, 3000, 3500, 4000 to 4800 OPM (orbits per minute), which is displayed on the center of the display screen. The polishing usage chart for each OPM speed increment setting is listed on this manual's first page.

CARBON BRUSH INDICATOR LIGHT

When the indicator light on the top left side of the power tool display screen is green, it indicates that the power is on and the power tool can work properly. When the indicator light is red, it will not work properly. It indicates that the carbon brush has been consumed or the carbon brush is damaged. At this time, the carbon brushes need to be replaced.

POLISHER WORKING HOURS

The indicator light on the bottom left side of the power tool display screen shows how many working hours the polisher has been in use. This enables you to see the run time and assess power tool servicing. The total working hours can be reset to 0 by pressing down the "-" button and holding it for 3-4 seconds.

SERVICE INDICATOR LIGHT

When the indicator light on the top right side of the power tool display screen turns red, it indicates that the polisher has been used for 80 working hours, and it is time to be serviced. A service and maintenance check of carbon brushes, grease for the gear, switch, air vents, backing plate, etc. The service light will go back to blue again when you press down the "+" and "-" buttons and hold them for a few seconds.

CURRENT RUNNING TIME

The indicator light on the bottom right side of the power tool display screen shows how long the polisher has been in continuous operation. This enables you to see the run time and assess the power tool's operation, as the power tool can overheat if it is left running too long or has been running with an excessive load placed on it.

MAINTENANCE

Maintenance and cleaning of the inner parts like brushes, ball bearings, gears or others, must be carried out only by an authorized customer service workshop.



WARNING: To reduce the risk of injury, turn unit off and disconnect it from power source before installing and removing accessories, before adjusting or when making repairs. Be sure the switch is in the "OFF" position. An accidental start-up can cause injury.

CLEANING



WARNING: Blow dirt and dust out of all air vents with clean, dry air at least once a week. To minimize the risk of eye injury always wear ANSI Z87.1 performing this.



WARNING: Never use solvents or other harsh chemicals for cleaning the non-metallic parts for the tool. These chemicals may weaken the plastic materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool never immerse any part of the tool into a liquid.

WARRANTY

We make every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase. This warranty will not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, and contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you.

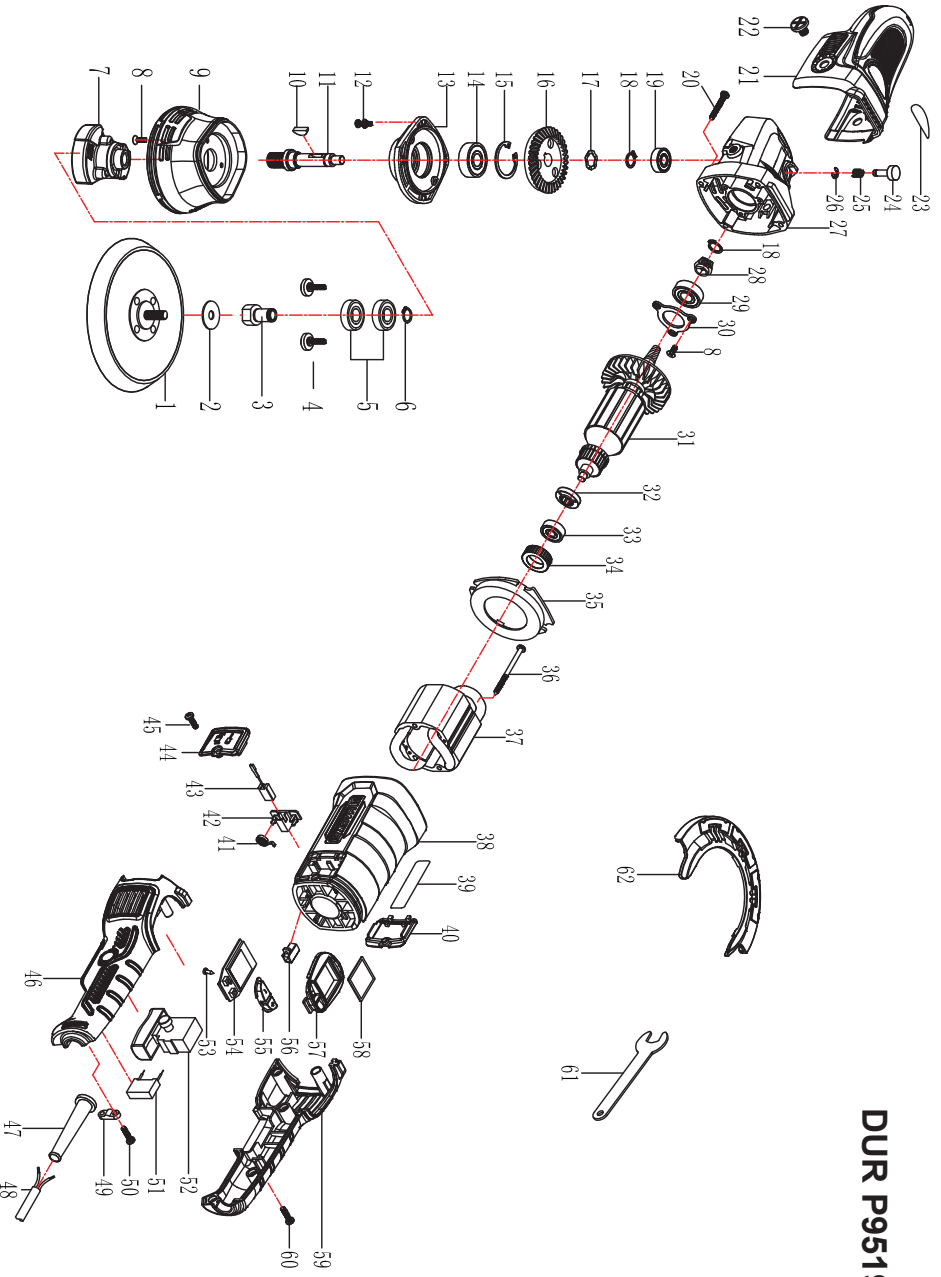
THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. The polisher's serial number must also be intact. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense. If we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product. This warranty gives you specific legal rights and you may also have other right which varies from state to state.

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DUR P9519



DP9519 Part List					
No	Name	Qty	No	Name	Qty
1	Backing pad	1	32	Magnetic ring	1
2	Epoxy spacer	1	33	Bearing 608-2RS	1
3	Flat square output shaft	1	34	Bearing shroud	1
4	Cross pan head screw	2	35	Elastic collar	1
5	Bearing 6001-2RS	2	36	Cross pan head screw	2
6	Elastic collar	1	37	Stator	1
7	Counterbalance	1	38	Body housing	1
8	Cross pan head screw	5	39	Trade mark	1
9	Counterbalance shroud	1	40	Right brush holder	1
10	Output shaft	1	41	Sping coil	2
11	Woodruff key	1	42	Brush holder	2
12	Cross pan head screw	4	43	Carbon brush	2
13	Front cover	1	44	Left brush holder	1
14	Bearing 6201-2RS	1	45	Cross pan head screw	4
15	Elastic collar	1	46	Left handle	1
16	Large gear	1	47	Cable shroud	1
17	Washer	1	48	Cable	1
18	Elastic collar	2	49	Cable plate	1
19	Bearing 686	1	50	Cross pan head screw	2
20	Cross pan head screw	4	51	Capacitance	1
21	Gear housing shroud	1	52	Switch	1
22	Plastic screw	1	53	Cross pan head screw	1
23	Gear housing shroud label	2	54	Breadbord	1
24	Self-lock pin	1	55	Speed control button	1
25	Self-lock pin coil	1	56	Detector	1
26	Split washer	1	57	LED screen	1
27	Gear housing	1	58	EVA label	1
28	Small gear	1	59	Right handle	1
29	Bearing 6000-2RS	1	60	Cross pan head screw	5
30	Bearing plate	1	61	Wrench	1
31	Rotor	1	62	Hand rest	1



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