NANO POLISHER





Part list

Name Qty No. Name Qty ection cover 1 15 Motor bracket 1 tput shaft 1 16 Motor bracket 1 tput shaft 1 16 Motor bracket 1 Bearing 1 17 Trigger spring 1 Gear 1 19 Locking piece 1 Limp ring 1 20 Locking spring 1 Bearing 1 21 Locking cap 1 Bearing 1 22 Switch 1 Bearing 1 24 Speed controller 1 Bearing 1 24 Speed controller 1 Or ring 1 25 Battery connector 1 Or ring 1 26 Lithium battery 1 Or ring 2 Machine casing 2 Screw 2 11					
1 15 Motor bracket 1 16 Motor 1 17 Trigger 1 18 Trigger spring 1 19 Locking piece 1 20 Locking spring 1 21 Locking spring 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 26 Lithium battery 2 28 Screw	Name	Qty	ON	Name	Qty
1 16 Motor 1 17 Trigger 1 18 Trigger spring 1 19 Locking piece 1 20 Locking spring 1 21 Locking cap 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Protection cover	1	15	Motor bracket	1
1 17 Trigger spring 1 18 Trigger spring 1 19 Locking piece 1 20 Locking spring 1 21 Locking cap 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 2 28 Screw	Output shaft	1	16	Motor	1
1 18 Trigger spring 1 19 Locking piece 1 20 Locking spring 1 21 Locking cap 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 26 Lithium battery 2 2 Machine casing 2 28 Screw	Bearing	1	17	Trigger	1
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1 20 Locking spring 1 21 Locking cap 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Gear	1	19	Locking piece	1
1 21 Locking cap 1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Jump ring	1	20	Locking spring	1
1 22 Switch 1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Bearing	1	21	Locking cap	1
1 23 Casing fastener 1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Gear shaft	1	22	Switch	1
1 24 Speed controller 1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Bearing	1	23	Casing fastener	П
1 25 Battery connector 1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Check ring	1	24	Speed controller	1
1 26 Lithium battery 1 27 Machine casing 2 28 Screw	Bearing	1	25	Battery connector	П
1 27 Machine casing 2 28 Screw	O ring	1	26	Lithium battery	1
2 28 Screw	Motor coupling sleeve	1	72	Machine casing	2
	Screw	2	28	Screw	11

GENERAL POWER TOOL SAFETY WARNINGS

WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and uctions may result in electric

alsouchtes may lessur in election.

Save all warnings and instructions for tuture reference.

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

- 1) Work area safety a) Keep work area clean and well lit. Cluttered or dark areas invite
- accounts.
 b) 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 furnes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

- e) 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)
- 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.
- risk or electric shock if your body is earlied or grounded.

 1) On not expose power bods to rain or wet conditions. Water chetring a power tool will increase the risk of electric shock.

 d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power took. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) 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.
- I to perating 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 fhedication.
 A moment of inattention while operating power tools may result
- serious personal injury.
 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.
 c) Prevent unintentional starting. Ensure the switch is in the offposition 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 energising power tools that have the switch on invites
- d) Remove any adjusting key or wrench before turning the power tool may result in personal injury.

 e) Do not overreach. Keep proper footing and balance at all times.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose
- clothes, jewellery or long hair can be 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. used. Use of dust collection of

- Power tool use and care
 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
- and must be repaired.

 j 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.

 () 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
- 1) Keep cutting tools sharp and clean. Properly maintained cutting harp cutting edges are less likely to bind and are easier to
- g) Use the power tool, accessories and tool bits etc. in accordan with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool

- 5) Battery tool use and care a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of
- b) Use power tools only with specifically designated battery packs.
- Use of any other battery packs may create a risk of injury and fire.

 c) When battery pack is not in use, keep it away from other metal. objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.
- 6) 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.

8.12.1.102 Additional safety instructions for all operations Kickback and Related Warmings Kickback and Related Warmings Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Prinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled tool to be forced in the direction opposite of the accessory's rotation at the rought of the bindrice. For examinal fast abuseaus wheels it promoder or inching to the property of the property of the property of the property of the principle. point of the binding. For example, if an abrasive wheel is snagged or pinched both of the binding refresher, it and advance weiter is stragged or principle by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels 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.

- a) Maintain a firm grip on the 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 reactions or kickback forces, if proper precautions are taken.

 b) Never place your hand near the rotating accessory. Accessory
- may kickback over your hand.
- may sockack over your name.

 () Do not position your body in the area where tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel? so movement at the point of snagging.

 (d) Use special care when working corners, sharp edges etc. Avoid
- bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause
- e) Do not attach a saw chain woodcarving blade or toothed saw



Figure 4

Reinstall No.5 protection cover



Figure 5

Insert No.11 wrench into No.9 flat square shaft, and then rotate No.10 polishing pad .This way you can easily install all the polishing heads



Figure 6

If you have trouble removing the polishing joint, please try using two wrenches to solve the problem. Insert No.11 wrench into the No.7 output shaft for fixation and rotate another No.11 wrench to remove the polishing joint.

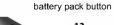




Figure 7

Warning: Be sure to disconnect the power when installing or replacing the polishing head.

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE REFERENCE FUNCTIONAL DESCRIPTION



	Specific	cation
Part	Description	Function
1	Recharging Seat	Seat for tool recharging
2	Charger indicator	Shows the charging status

TECHNICAL SPECIFICATIONS FOR MACHINE

TYPE	Machine
Voltage	12V
Speed/rpm	2500-5500r/min
Power	80W
Battery life (min)	About 60minutes without load

TECHNICAL SPECIFICATIONS FOR BATTERY

TYPE	Battery	
Voltage	12V	
Output Amps(A)	2.0Ah	
Charging time	About 65 minutes	

TECHNICAL SPECIFICATIONS FOR CHARGER

TYPE	Charger	
Input voltage	220-240V~	
Input frequency(Hz)	50-60Hz	
Voltage	45W	
Output voltage	12.6V	
Charge current	Max 2.4A	

Safety instruction for chargers and battery

Important Safety Instructions

WARNING: read all safety warnings and instructions
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Before using the battery operated tool and charger, read this Operator's Manual, your tool Operator's Manual and all labels on the battery tool and charger.

	Summary of device labels contain		mormation
@	WARNING: To reduce the risk of injury, user must read instruction manual	Hz	Hertz
< €	CE mark for EU market	Α	Ampere
V ===	Volts Direct current	\triangle	For Indoor Use Only
	Double insulated (Class II)	凤	Do not dispose with household rubbish
W	Watt		id rabbigit

WARNING

- To reduce the risk of injury, Only use the factory's Li-ION battery charger to charge the Li-ION battery its Other types of chargers may cause personal injury or damage. Battery tool and charger are not compatible with NICd systems. Do not wire a battery tool to a power supply plug or car cigarette lighter. Battery tool will
- with nice systems. Do not write a pattern tool or a power supply play of the systems. Do not use battery be permanently disabled or damaged.

 Avoid dangerous environments. Do not charge battery tool in rain, snow, damp or well locations. Do not use battery and the system of the s Avoid cangerous environments. Do not charge battery tool in rain, show, camp or wet ocations. Do not use battery
 tool or charger in the presence of explosive atmospheres (gaseous furnes, dust or flammable materials) because sparks
 may be generated when inserting or removing battery tool, possibly causing fire.
 Charge in a well ventilated area. Do not block charger vents. Keep them clear to allow proper ventilation. Do not
 allow smoking or open flames near a charging battery tool. Vented gases may explode.
- amous since in continuous or open names mear at unargung posterey root. Venero gasses may expicue.

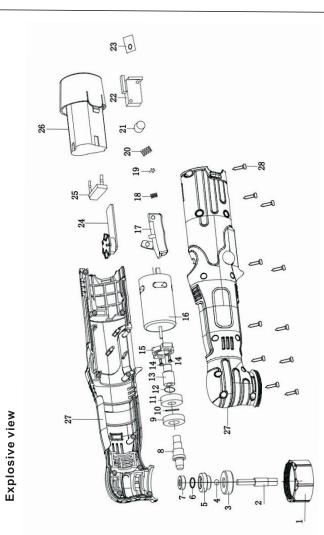
 **Maintain charger cord. When unphygging charger, pull plug rather than cord to reduce the risk of damage to the electrical plug and cord. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Make sure cord will not be stepped on, tripped over or subjected to damage or stress. Do not use charger with damaged cord or plug. Have
- Charger is rated for 100~240 Volt AC. For technical data refer to the label of Li-ION Battery Charger.

- Charger must be plugged into appropriate receptable.

 Unplug charger when not in use. Remove battery tool from the unplugged charger.

 To reduce the risk of electric shock, always unplug charger before cleaning or maintenance. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.
- Do not burn or incinerate tool battery pack. Battery pack may explode, causing personal injury or damage. Toxic The source of th
- sharp blow, been dropped, nurvey, or damaged in any way (e.g. pierced with a nail, hit with a harmer, stepped on).

 Do not disassemble. Incorrect reassembly may result in the risk of electric shock, fire or exposure to battery
- · Battery chemicals cause serious burns. Never allow contact with skin, eyes or mouth. If a damaged tool battery
- Battery chemicals cause serious burns. Never allow contact with skin, eyes or mouth. If a damaged tool battery pack leaks battery chemicals, use rubber or neoprene gloves to dispose of it. If skin is exposed to battery fluids, wash with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention. Remove and dispose of contaminated clothing.
 Do not short circuit. A battery operated tool's battery pack. Do not place a battery operated boot's battery pack bor of contaminated coloning.
 Do not short circuit. A battery operated boot's battery pack. Do not place a battery operated boot are anything that may cause a short circuit such as conis, keys or nails. A short circuited battery tool pack may cause fine and personal fluiry.
 Store your battery operated tool and charger in a cool, dry place. Do not store the tool's battery pack where temperatures may exceed 67°C (120°Fs) such as in direct suitable a vehicle or matal bailding fulling the europerated.
- temperatures may exceed 50°C (120°F) such as in direct sunlight, a vehicle or metal building during the summer



WARNING: to reduce the risk of injury or explosion, never burn or incinerate a tool's battery pack even if it is damaged, dead or completely discharged. When burned, toxic furnes and materials are created.

WARNING: before connect the cable to the electric socket check if the voltage of the electric socket coincides with the Voltage specified in the label of LI-ION Battery Charger

WARNING: charge Li-ION Battery pack only in our Battery Charger
Other types of batteries may cause personal injury and damage. This tool's battery pack and charger are not
compatible with NiCd or NiMH systems.

When to charge

Charge your battery tool when convenient for you and your job. The Battery pack does

net develop "memory" when charged after only a partial discharge. It is not necessary to run down the battery tool pack before placing it on the charger.

Use the led Battery pack lever in dication to determine when to charge the Battery pack;

- GREEN: from 100% to 50% batteries charge
- YELLOW: from 50% to 20% batteries charge
- RED. from 20% to 0% batteries charge
- RED BLINKING: 0% battery charge: the tool does not start

How to charg

Plug the charger into the power supply socket: the green light will firmly turn on (stand by). Insert the charger connector into the battery pack and the red light will turn on

A fully discharged battery pack with an internal temperature in the normal range will charge normally; If overheating occurs, wait for it to cool before recharging

After charging is complete, the green light will firmly trun on. The charger will keep the battery operated tool fully charged if it is left on the charger, if the charger is green all the time(over 60 minutes), the battery pack is damaged, please contact the franchiser.

Maintenance and storage

MARNING: to reduce the risk of injury, always unplug the charger before performing any maintenance. Never disassemble the battery pack, the tool or charger. Contact a service facility for all repairs.

To reduce the risk of injury and damage, never immerse your battery pack, tool or charger in liquid or allow a liquid to flow inside them.

Cleaning: Clean out dust and debris from charger vents and electrical contacts by gently blowing with compressed air; wearing appropriate dust mask taking consideration of the type of malerial having been worked. Only use a mild soap solution on a damp cloth to clean the battery tool and charger, keeping away from all electrical contacts.

Only use a mild soais solution on a damp coth to clean the battery tool and charger, keeping away from all electrical contacts. Other cleaners may contain chemicals that could cause damage be the plastic and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, chlorinated cleaning solvents, ammonia, and household detergents containing ammonia. Do not use flammable or combustible solvents (refer to previous instructions) around battery pack, tool and charger.

Storage: Store battery charger at room temperature away from moisture. Do not store in damp locations where corrosion of terminals may occur,

As a general practice, it is better to unplug the battery charger and remove the battery pack when not in use. No battery damage will occur, however, if the battery pack is left plugged in the charger.

FAILURE TO START

In a case of failure to start: check to make sure the prongs on the cord plug are making good contact in the outlet; check if the current is present in the plug. Also, check for blown fuses or open circuit breakers in the line

HEALTH AND SAFETY INFORMATION

Device Safety Compliance

The Battery Charger is CE marked for conformity to European Low Voltage and EMC directive regulations - refer to Declaration of Conformity for details.

WEEE Compliant

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At the end of its useful life, this product pursuant to European Directive 2012/19/EU and its implementation in national law, must not be released into the environment or thrown away as domestic waste, but must be disposed of an authorized recycling centers 1.Battery 2.Casing
3.Switch 4.Speed controller
5.Protection cover

figure 1



Remove No.5 protection cover as shown in figure 3

Figure 2



Insert No.11 wrench into No.7 output shaft , then rotate No.8 eccentricity seat to install the entire eccentric part as shown in figure 4

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