CORDLESS ROTARY POLISHER NT09EC-408

OPERATION MANUAL



ONETECH

Tools







INAPPROPRIATE USE OF THE TOOL MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

ONLY QUALIFIED AND SPECIALLY TRAINED PERSONNEL FAMILIARIZED WITH THESE INSTRUCTIONS IS ALLOWED TO OPERATE AND PERFORM MAINTENANCE OF THE TOOL.

Safety recommendations contained in present manual shall be observed in addition to the general safety regulations in force in the region of tool usage, and do not replace them.



- > Risk of contact with moving parts.
- Increased noise and vibration levels may occur.
- > Risk of increased dust content in the air of the work area.







To reduce the risk of injury, user must read and understand operator's manual.











1. IMPORTANT SAFETY INSTRUCTIONS

WORK AREA SAFETY

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

ELECTRICAL SAFETY

- 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.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

PERSONAL SAFETY

- 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the trigger is in the «OFF» (depressed) position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the trigger or energizing power tools that have the trigger in the «ON» (pressed) position invites accidents.
- 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.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 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.



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.
- Do not use the power tool if the trigger does not turn it ON and OFF. Any power tool that cannot be controlled with the trigger is dangerous and must be repaired.
- 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.
- 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.
- 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

- 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.
- Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

SAFETY RULES FOR BATTERY PACK AND CHARGER

Important safety and operating instructions for your battery and charger.

- Before using the charger, read all instructions and warnings on the charger, the battery pack and the tool.
- If the battery pack casing is cracked or damaged, do not insert into charger. There is a danger of electric shock or electrocution.
- Do not allow any liquid to get inside the charger. Electric shock may result.
- This charger is not intended for any uses other than charging rechargeable batteries.
- Do not place any object on top of the charger, do not place the charger near any heat source or on a soft surface e that might block the ventilation slots and result in excessive internal heat.
- Make sure the cord is located so it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not use the charger if it has received a sharp blow, been dropped or otherwise damaged in any way.
- Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40 °C.
- The charger is designed to operate on standard household electrical power (100 240 VAC). Do not attempt to use it on any other voltage.
- 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.
- 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 fire when used with another type of battery pack.
- Use power tools only with specifically designated battery packs. The use of any other battery packs may create a risk of injury and fire.
- When the 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 fire.
- 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. Liquid ejected from the battery may cause irritation or burns.
- Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, immediately discontinue its use and do not recharge.

ADDITIONAL SAFETY WARNINGS

WARNING!

To reduce the risk of injury, when working in dusty situations, wear appropriate respiratory protection or use an OSHA compliant dust extraction solution.



- Always use common sense and be cautious when using tools. It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact ONETECH representative or a trained professional for additional information or training.
- Maintain labels and nameplates. These carry important information. If they are unreadable or missing, please contact a ONETECH representative or service facility for assistance.

WARNING!

- Some dust created by power sanding, polishing, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
- lead from lead-based paints;
- crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically treated lumber. 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.
- Always ensure that the work piece to be sanded is firmly fixed in place.
- Always remove the battery pack during any transportation of the tool.
- Do not allow the tool to free speed without taking precautions to protect surrounding people and objects in the event that the abrasive or backing pad should come loose.
- Read all instructions before using this tool. All operators must be fully trained in the proper, safe use of this tool.
- All maintenance must be carried out by trained personnel. For service, contact a ONETECH authorized service centre.
- If the tool appears to malfunction, stop using it immediately and arrange for service and repair.
- Before changing the accessories always disconnect the power source.
- Never carry, store or leave the tool unattended with the power source connected.
- Keep hands clear of the spinning pad during use.
- Always wear required personal safety protection in accordance with manufacturer's instructions and local/national standards while using this tool.
- If you experience any physical hand/wrist discomfort, stop working and seek medical attention. Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibrations.

 Read and comply with state and local regulations.

SPECIFIC SAFETY RULES FOR POLISHERS

- This power tool is intended to function as a polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.
- Operations such as grinding, sanding, wire brushing or cutting-off are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer.
- The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.
- Threaded mounting of accessories must match the polisher spindle thread..
- Do not use a damaged accessory. Before each use inspect the accessory such as, backing pad for cracks, foam pads tear or excess wear. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- 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.
- 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.
- 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.
- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.



- Kickback and Related Warnings. Kickback is a sudden reaction to a pinched or snagged rotating 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 an foam pad is snagged or pinched by the workpiece, the pad may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Pads may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- 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 reactions or kickback forces, if proper precautions are taken.
- Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- 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.
- 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 loss of control or kickback.
- Safety Warnings Specific for Polishing Operations:
- Do not allow any loose portion of the polishing backing plate or its attachment strings to spin freely. Tuck away or trim any loose attachment strings. Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

2. PRODUCT DESCRIPTION

2.1 Components



- 1. Foam Pad
- 2. Backing Plate
- 3. Accelerator Switch
- 4. Control Panel
- 5. Battery Pack (not included)

2.2 Technical Specifications

Model	Rated speed, rpm	Rated voltage, V DC	Backing plate, mm	Foam/Wool pad, mm	Net weight*,	Output shaft	Dimensions, mm
NT09EC-408	700 – 2 500 spinning only (no oscillation)	10.8	74 (3")	80 - 100	720	1/4"-20 (F)	197 x 108 x 80

^{*} tool only, no accessories or battery pack.

PLEASE NOTE! The specifications are subject to change without prior notice. Model range may vary between markets.

Information about noise and vibration levels. Measured values are determined according to EN 62841.

Sound pressure level (LpA), dB(A):	54
Sound power level (LWA), dB(A):	62
Sound measurement uncertainty (K), dB(A):	3
Vibration emission value (ah)*, m/s ² :	3.07
Vibration emission uncertainty (K), m/s ² :	1.5

^{*} The values provided in the table are derived from laboratory testing in conformity with state codes and standards and are not sufficient for risk evaluation. Values measured in a particular work place may be higher than the declared values.



The actual exposure values and amount of risk or harm experienced to an individual is unique to each situation and depends upon the surrounding environment, the way in which the individual works, the particular material being worked, work station design, as well as upon the exposure time and the physical condition of the user.

ONETECH cannot be held responsible for the consequences of using declared values instead of actual exposure values for any individual risk assessment.

3. INTENDED USE

The polisher is designed for industrial and automotive surface polishing works.

Complied buffing and polishing pads: Foam pads, wool pads, felt pads, micro-fiber pads

WARNING!

Only use the charger and battery pack specified by ONETECH (see Chapter «BATTERY PACK AND CHARGER»). Read the operator's manual supplied with your charger and battery.

4. ASSEMBLY

4.1 Removing/Inserting the Battery

To remove the battery, push in the release buttons and pull the battery pack away from the tool.

WARNING! Always remove battery pack before changing or removing accessories.

To insert the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

4.2 Installing Polishing Pads/Backing Plate

- 1. To install, remove the battery pack and place the tool on its tool rest with the spindle upright.
- 2. Press and hold the spindle lock button.
- 3. Thread the backing pad onto the spindle. Hand-tighten securely.
- 4. Press the polishing pad securely onto the backing plate. Use a centering tool, if provided, to ensure the pad is aligned for proper balance.
- 5. To uninstall, remove the battery pack and reverse the procedure.

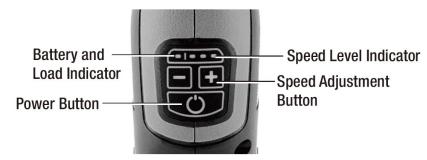
5. OPERATION

5.1 Starting, Stopping and Controlling Speed

Generally, lower speeds are recommended for tight work areas and higher speeds are ideal for large surface areas. Use the speed control button to set the maximum speed for the application.

- 1. Press the power button, the LED light on the right side lights up green, the machine is activated.
- 2. When activated, press the switch to start the machine; release the switch to stop.
- 3. The speed can be adjusted by compression of the trigger.
- 4. Double-click the switch to make the machine work continuously; click the switch again to stop the machine.
- 5. The battery power reserve and load conditions of the machine indicated by the smart load indicator LED on the left side:
 - «Green»: sufficient battery power reserve/light load
 - «Yellow»: medium battery power reserve/medium load
 - «Red»: low battery power reserve/heavy load
- 6. In activation mode, the maximum rpm can be adjusted by pressing the speed adjustment button "+" or "-".
- 7. The three LED lights on the right side of the control panel are speed level indicator; one LED light represents two speed levels.
- 8. 6-Level Speed: 700; 1 060; 1 420; 1 780; 2 140; 2 500 rpm.

Speed memory function: when the machine is turned off and restarted, the speed level before shutdown will be retained.





5.2 Polishing

Always use side or bail handle for proper control. Move the polisher back and forth in long, sweeping strokes. Too much pressure, the wrong angle or improper motion may cause swirl marks or burning.

For detailed polishing instructions, read the instructions provided with the finishes, waxes and polishes.

5.3 Preventing Burning Through Paint

It is easy to burn through the paint on a surface. This can occur if you polish at too high a speed or if you allow the polishing pad to stay in one spot for even a short period of time. To prevent burning through paint, use very light pressure and keep the polisher moving constantly, especially when working near edges or where there are abrupt changes in the contour of the work surface.

Be particularly careful when using higher RPM's which are more likely to burn through paint.

WARNING! To reduce the risk of injury, follow instructions for preventing snagging. Snagging may cause the tool to kick back and the operator to suddenly lose control of the tool.

5.4 Preventing Snagging

Snagging occurs when polishing pads get caught on rough edges of a work surface. Snagging can cause the tool to suddenly "kick back" and it may cause the pad to burn through the paint. To reduce the risk of snagging, use the polisher at low speeds when polishing rough surfaces. For tricky areas such as near trim or between a mirror and window on a car, do not take chances with a polisher. Polish these surfaces by hand.

6. BATTERY PACK AND CHARGER

- > First read the safety instructions and then charge your battery pack according to the instructions.
 - The following battery packs can be used with this tool:
 - NT09E-105 Li-ion Battery Pack (10.8 VDC, 2.5 Ah);
 - NT09E-106 Li-ion Battery Pack (10.8 VDC, 5.0 Ah).
 - The use of any other battery packs may create a risk of injury and fire.
- For optimal charging capacity, the battery pack should be charged at an ambient temperature between 18 °C and 24 °C. To prevent damage to the battery pack, do not charge the battery pack where the air temperature is below 4 °C or above 40 °C.
- A charger that is suitable for one type of battery pack may create a risk of fire when used with another type of battery pack. Battery packs can only be charged using ONETECH chargers:
 - NT09E-103 Rapid Charger (input 100 240 VAC, output 18 VDC, 3 A);
 - NT09E-104 Dual-Channel Simultaneous Rapid Charger (input 100 240 VAC, output 18 VDC, 3 A, 2 bay);
- > To ensure the longest possible battery life, please follow the recommendations below:
 - Store and charge your battery pack in a cool area. Temperatures above or below normal room temperature will shorten battery life.
 - Never store the battery pack in a discharged condition. Recharge it immediately after it has been discharged.
- > All battery packs gradually lose their charge. The higher the temperature, the quicker they lose their charge.
- ➤ If you store your tool for long periods of time without use, recharge the battery every month. This practice will prolong battery life.
- > When the 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 fire.
- ➤ 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. Liquid ejected from the battery may cause irritation or burns.
- > Do not use a battery pack or tool that has been damaged or modified in any way. Damaged or modified battery packs may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- > Do not expose the battery pack or the tool to fire or heat. Exposure to fire or temperature above 130 °C may cause explosion.

6.1 Charging Procedure

- > Connect the power cord to the charger, and then plug into an outlet before inserting the battery pack. All two charging lights will be on for two seconds and then turn off.
- > Insert the battery pack into the charger. The charging light will start to flash within 30 seconds.



- During the charging process, the charging light will indicate the status as follows:
 - The «green» charging light will flash during the charging process.
 - Once the battery pack is fully charged, the «green» light will remain on continuously.

PLEASE NOTE! Charging times may be longer depending on the ambient temperature and condition of the battery pack.

6.2 Charger Diagnostics

The charger will indicate if:

- The battery pack is overheated. All two charging lights will flash. Remove the battery pack and allow it to cool down for 15-30 min and re-insert.
- > A malfunction occurs in the battery or the charger. All two charging lights will flash. Remove the battery pack and allow it to cool down. Re-insert the battery pack into the charger. If two charging lights still flash, the battery or charger may require maintenance.

7. DISPOSAL CONSIDERATIONS

- Observe applicable country-specific regulations regarding disposal and recycling of disused tools, packaging and accessories.
- ➤ EU only: Do not dispose of electric power tools with regular household waste. According to the EU Directive 2012/19/EC (on Waste Electrical and Electronic Equipment (also known as WEEE II) and its implementation under national law, electric tools that have reached the end of their service life must be collected separately and taken to an environmentally friendly and specially designed recycling facility.

8. SERVICE

8.1 Warranty Service

- 1. During the warranty period, the Seller shall only be held liable for any product defects in material or marksmanship. In such an event, the product shall be repaired at no charge. Any warranty claim of the part of the user must be accompanied with a proof of purchase and warranty card, a clear statement of the full name of the purchased product model, the product code indicated on the nameplate, the date of purchase. When returning the tool and accessories for warranty repair, they shall be inspected by the technical service centre in order to verify whether they are covered by the warranty.
- 2. During the warranty period, the following consumable parts are not covered by the warranty due to natural wear and tear in use:

Wear in service: commutator, bearing, bushing, gear, handle, shell, hose, hanger, hook, etc.;

Consumables: housing, polishing pads, backing plate, etc.

- Non-warranty parts and maintenance labour costs are the responsibility of the user.
- 3. The warranty does not apply in the following cases:
- the user fails to present a valid warranty card and proof of purchase, or the information in the warranty card does not match the actual tool;
- the damage was caused by failure to operate, maintain and store the tool in accordance with the instructions for use;
- the damage was caused by dropping, water ingress, etc., due to improper use, storage or transportation of the tool;
- the damage was caused by failure to use original ONETECH parts;
- the user disassembled the tool on their own, or damage to the tool was caused in the process of repair, rebuilding,
 disassembly or maintenance at non-ONETECH authorized service points;
- the damage was caused by forcing the brake or exerting excessive pressure on the power tool when it is operated at high speed;
- the damage was caused by starting the power tool without reaching a constant speed or stopping it completely before it starts to process a work piece or change functions;
- the power tool is started without reaching a constant speed or not completely stopped, then use it to work or change the function resulting in damage;
- the power tool is operated in dusty or humid environments for long periods of time without timely maintenance due to the ingress of foreign objects;
- damage is caused to the battery pack by frequent under-charging or under-discharging or by being hit or by unauthorized replacement of the charger plug.



ONETECH reserves the right to modify the above terms and conditions at any time without notice, and is entitled to the final interpretation of the above warranty terms.

Visit the official website www.onetech-tools.com for the latest product information.

8.2 EXEMPTION FROM LIABILITY

The manufacturer and his representative shall not be liable for any damage or lost profit due to an interruption in business caused by a malfunctioning or unusable product.

The manufacturer and his representative shall not be held liable for any damage which was caused by improper use of the power tool or by use of the power tool with products from other manufacturers.

9. DESCRIPTION OF SYMBOLS



Before switching on the power tool, read the operating manual!



Wear eye protection.



Wear hearing protection.

Wear protective gloves.



Wear a dust mask.



Wear protective clothes.



Device is suitable for use indoors only. Store electric power tool in dry rooms.



Caution / Warning.



There is a risk of electric shock in case of incorrect use.



Only charge the battery pack at temperatures between 4 °C to 40 °C. Protect the battery pack from heat, e.g. from continuous exposure of sunlight and fire.



Do not throw device in the fire. There is a risk of explosion.



Do not expose the device to rain; keep the device away from water.



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



The product complies with the applicable requirements.

The product complies with the applicable requirements.



The product complies with the applicable requirements.



Recycling can prevent the waste of potentially useful materials and reduce the consumption of fresh raw materials.

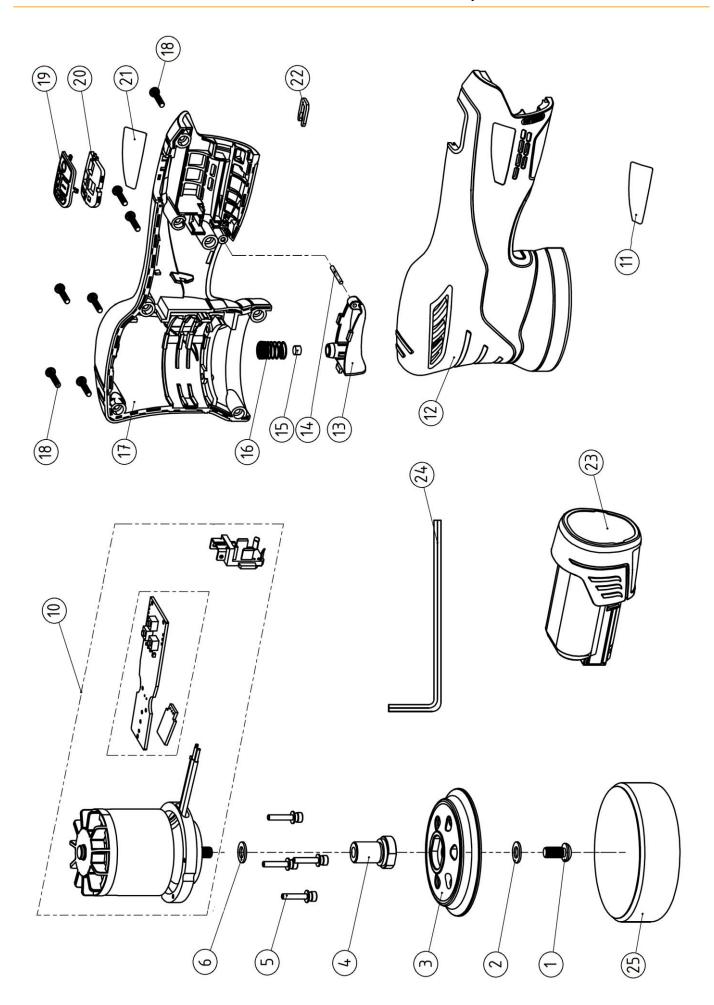
Do not dispose of electric power tools with regular household waste! Power tools must be collected separately and recycled in an environmentally friendly manner.

CE DECLARATION OF CONFORMITY

We declare under our sole responsibility that the product described in the «Technical Specifications» section conforms to the following standards or normative documents:

- ✓ EN62841-1
- ✓ EN62841-2-3
- ✓ EN IEC 55014-1
- ✓ EN IEC 55014-2
- ✓ 2006/42/EC
- √ 2014/30/EU







Parts

No.	Description	Part No.	Q'ty
1.	Screw 1/4"-20x10	NT09S-1620	1
2.	Washer Ø 6.5x12x1	NT09S-1621	1
3.	Backing Plate	NT06-3001	1
4.	Shaft	NT09S-1622	1
5.	Screw M3x15	NT09S-1623	4
6.	Washer Ø6.55x10x1	NT09S-1624	1
10.	External Rotor Motor - Controller Assembly	NT09S-1625	1
11.	Brand Label	NT09S-1399	1
12.	Housing (Left)	NT09S-1627	1
13.	Trigger	NT09S-1628	1
14.	Location Pin Ø 2x18	NT09S-1397	1
15.	Magnetic Steel Ø 5x3.6	NT09S-1630	1

No.	Description	Part No.	Q'ty	
16.	Spring 0.6x10x20	NT09S-1631	1	
17.	Housing (Right)	NT09S-1632	1	
18.	Screw ST3x18	NT09S-1633	7	
19.	Switch Panel	NT09S-1634	1	
20.	Panel Support	NT09S-1635	1	
21.	Data Label	NT09S-1636	1	
22.	Clip	NT09S-1406	1	
22	Battery Pack 10.8V (2.5 Ah)	NT09E-105	1	
23.	Battery Pack 10.8V (5.0 Ah)	NT09E-106	1	
24.	Wrench 4	NT09S-1638	1	
25.	Foam Pad	-	1	



Other languages:





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www.onetech-auto.com www.onetech-tools.com

