

ELECTRIC BRUSHLESS RANDOM ORBITAL SANDER

NT09E-550CF

OPERATION MANUAL



**ONE
TECH**

ONETECH

Tools

ATTENTION! PLEASE READ THIS MANUAL BEFORE OPERATING THE POWER TOOL.



IMPROPER 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.

The safety recommendations contained in this Operation Manual shall be observed in addition to the general safety regulations in force in the region in which the tool is used, 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.



- Risk of fire and short circuit if the wires are exposed to a source of fire or heat.
- Electric shock hazard.



1. IMPORTANT SAFETY INSTRUCTIONS

WORK AREA SAFETY

- Keep your working area clean and well lit. Cluttered 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.
- 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 and moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating the power tool outdoors, use an extension cord suitable for outdoor use. The use of an extension cord suitable for outdoor use reduces the risk of electric shock.
- If operating the power tool in a damp location is unavoidable use a residual current device (RCD) protected supply.

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.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 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.
- 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.

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 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.
- 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.
- 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.

SAFETY INSTRUCTIONS FOR SANDER

SAFETY INSTRUCTIONS FOR ALL OPERATIONS

- This power tool is intended to function as a sander. 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.
- Operations such as wire brushing or cutting and similar operations 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. Just because the accessory can be attached to your power tool, it does not assure safe operation.
- 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. Incorrectly sized accessories cannot be adequately guarded or controlled.
- Threaded mounting of accessories must match the spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pads for cracks, tear or excess wear. If the power tool or accessory is dropped, inspect them for any 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.
- 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 work piece 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.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of work piece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

- 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.
- 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.
- Never place your hand near the rotating accessory. Accessory may kickback over your hand.
- 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.

ADDITIONAL SAFETY WARNINGS

WARNING!

When working in dusty environment, wear appropriate respiratory protection to reduce the risk of injury.

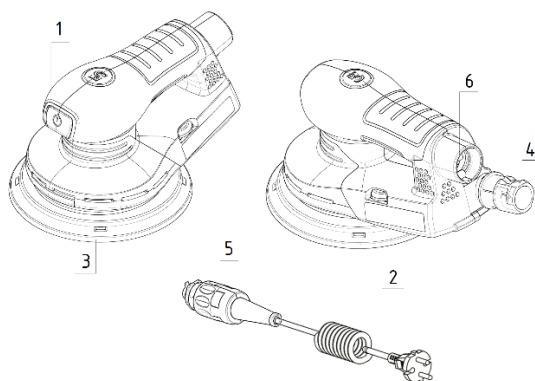
- Always use common sense and be cautious when using the tool. It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use the tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact ONETECH representative 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, 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.

2. PRODUCT DESCRIPTION



1. On/Off Button
2. Speed Controller
3. Backing Pad
4. Vacuum Pipe Connector (Swivel)
5. Power Cord – 5 m (removable)
6. Power Cord Jack Housing

Technical Data

Model	Pad size, mm	Orbit, mm	Speed (idle), rpm	Vacuum mode	Protection class	Voltage, V ~	Power, W	Net weight, kg
NT09E-550CF	150±2	5.0	6 000 – 10 000	Central Vacuum		220-240 (50 Hz)	400	1.20

- Spindle Thread: M8 (F)
- Dust Extraction Connection Ø: 27 mm (1-1/16")

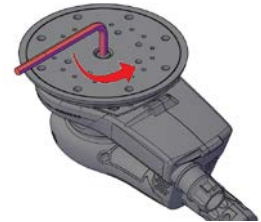
3. FEATURES AND INSTALLATION

3.1 Securing and Changing the Abrasive

- Place the abrasive in the centre of the sander backing pad and press on it. The holes in the abrasive must be aligned with the holes in the backing pad.
- For round backing pads only: perform a test run to make sure that the abrasive is secured in the centre.

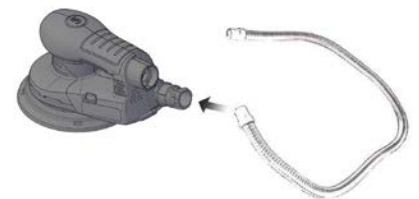
3.2 Replacing the Backing Pad

- Flip the sander over and place on a flat, level surface.
- Use the S6 wrench to loosen the screw in the centre of the backing pad counter clockwise.
- Remove the old pad and replace it with a new one.
- Tighten the screw clockwise.



3.3 Connecting the Vacuum Pipe

- Connect one end of the vacuum pipe to the dust outlet of the sander.
- Connect the other end of the vacuum pipe to the vacuum cleaner inlet.



4. OPERATING INSTRUCTIONS

Note! The sander can develop a torque reaction when started.

1. Make sure the sander is switched off. Select a suitable abrasive and secure it to the backing pad. Make sure the abrasive is centered on the backing pad.
2. Switch on the sander by pressing the On/Off button.
3. The speed can be adjusted between 6 000 rpm and max by adjusting the position of the speed controller.
4. Rotation by one notch increases or reduces the speed by 650 rpm until it reaches the limits. The rotational speed can be adjusted within the range of 6 000 to 10 000 rpm.
5. When sanding, always place the tool on the work surface before starting the tool. Always remove the tool from the work surface before stopping it. This will prevent gouging of the work surface due to excess speed of the abrasive.
6. Once the sanding is finished, turn off the sander by pressing the On/Off button.

5. MAINTENANCE AND CARE

WARNING!

Always disconnect the mains plug from the socket before performing any maintenance work on the tool!

- Protect the tool from impact, shock and dirt.
- Disconnect the power plug before cleaning the tool.
- Regularly clean the tool and ventilation slots with air compressor. However, do not bring the nozzle too close to the tool, otherwise high-speed air stream can damage the internal parts of the tool. Do not attempt to clean the ventilation slots by inserting any pointed objects through the openings.
- Do not bend the power cord at will. Check the power cord for any damage frequently and timely replace it if it is damaged.

6. TROUBLESHOOTING

Symptom	Possible cause	Solution
The tool emits a burning smell	The stator is faulty, overload	Repair or replace the stator
The tool emits a sharp noise	Check the bearings on the eccentric block	Replace the bearings and see if it helps
When turned on, the disk rotates a bit at first, but the tool cannot start	The PCB of part #24 is faulty	Replace starter switch electronics
When turned on, no reaction at all, the tool cannot start	The PCB of part #26 is faulty	Replace speed controller electronics
The disk rotates very fast on Speed 1 and stops under pressure	There is too much dust inside the bearing on the counterweight	Clean the dust inside the bearing with air blower frequently as daily care or replace the bearing
The disk rotates very slowly on Speed 1-6 and stops under pressure	The motor is faulty	Replace the motor

7. DISPOSAL

To protect people and the environment, damaged power tools must be recycled or reused in an environmentally friendly manner!

1. Do not throw electric power tools into household waste! Recycle devices, accessories and packaging. Observe applicable country-specific regulations.
2. Before discarding the tool, be sure to render it unusable by removing the power cord.
3. For more information about tool recycling, consult your local government, waste treatment facility or dealer.

8. WARRANTY SERVICE

1. During the warranty period, the Seller shall only be held liable for any product defects in material or workmanship. 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, O-ring, etc.;
 - Consumables: power cord, plug, cable sheath, handle, housing, backing pad, 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 operated in dusty or humid environments for long periods of time without timely maintenance due to the ingress of foreign objects

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.

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

The following are some of the abbreviations and symbols used on the rating label attached to the product. Familiarize yourself with them to reduce hazards like personal injuries and property damage.

Exemption from liability

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10. DESCRIPTION OF SYMBOLS

The following are some of the abbreviations and symbols used on the rating label attached to the product. Familiarize yourself with them to reduce hazards like personal injuries and property damage.



Before switching on the tool, read the operation manual!



Wear eye protection.



Wear hearing protection.



Wear protective gloves.



Wear a dust mask.



Wear protective, slip resistant footwear.



Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustment, maintenance, storage and transportation.



The power tool is suitable for indoor use only. Store the electric power tool in dry rooms.



Incorrect operation may result in electric shock.



Caution / Warning.



This tool is a Class II electrical appliance. That means it is equipped with enhanced or double insulation.



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



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



The tool complies with the applicable European directives and an evaluation of conformity with regard to these directives was performed.



Recycle raw materials instead of waste disposal.



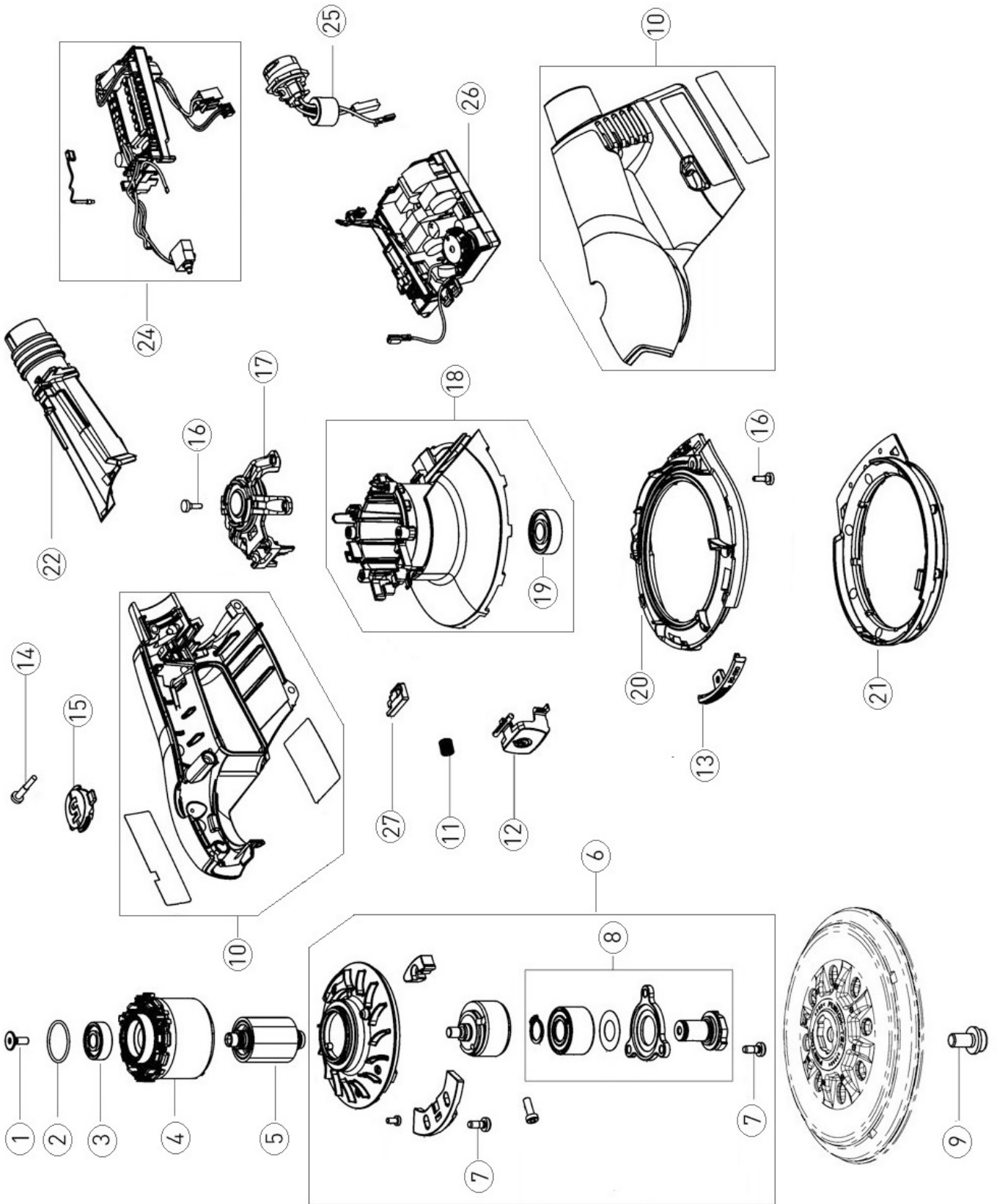
Do not throw electric power tools into household waste! Used power tools must be collected separately and recycled in an environmentally friendly manner.

11. 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:

- ✓ EN 62841-1;
- ✓ EN 62841-2-3;
- ✓ EN 61000-3-2;
- ✓ EN 61000-3-3;
- ✓ EN 55014-1;
- ✓ EN 55014-2;
- ✓ 2014/30/EU;
- ✓ 2006/42/EC
- ✓ 2011/65/EU (RoHS)

12. SPARE PARTS POSITION DIAGRAM



No.	Description	Part No.	Q'ty
1.	Screw	NT09S-1570	1
2.	O-ring	NT09S-1571	1
3.	Ball Bearing (5001)	NT09S-1572	1
4.	Stator	NT09S-1573	1
5.	Rotor	NT09S-1574	1
6.	Fan/Eccentric Block 5 mm Set	NT09S-1575	1
	Fan/Eccentric Block 3 mm Set	NT09S-1576	1
7.	Screw (M4x10)	NT09S-1577	6
8.	Bearing Set	NT09S-1578	1
9.	Screw	NT09S-1579	1
10.	Casing	NT09S-1580	1
11.	Compression Spring	NT09S-1581	1
12.	Switch Jack	NT09S-1582	1
13.	Label	NT09S-1583	1
14.	Screw (3.5x22 mm)	NT09S-1584	5

No.	Description	Part No.	Q'ty
15.	Cover for Eccentric Orbit 5 mm	NT09S-1585	1
	Cover for Eccentric Orbit 3 mm	NT09S-1586	1
16.	Screw (3.5x10 mm)	NT09S-1587	10
17.	Motor Mount	NT09S-1588	1
18.	Motor Housing (incl. NT09S-1590)	NT09S-1589	1
19.	Ball Bearing (6000)	NT09S-1590	1
20.	Apron (incl. NT09S-1583)	NT09S-1591	1
21.	Collar	NT09S-1592	1
22.	Dust Outlet	NT09S-1593	1
24.	Electronic Switch	NT09S-1594	1
25.	Cord Jacket Housing	NT09S-1595	1
26.	Electronic Speed Controller	NT09S-1596	1
27.	Switch Buffer	NT09S-1597	1
	Power Cord (5 m)	NT09S-1598	1
	Backing Pad 6" (150 mm), Multiholes, Velcro, M8	NT06-6001	1

Other languages:



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www.onetech-auto.de

