Random Orbit Sander

OPERATION INSTRUCTIONS

SSANDR-001

Read through carefully and understand these instructions before use.

GENERAL POWER TOOL SAFETY WARNINGS
(For All Power Tools)

⚠ WARNING! Read and understand all instructions. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.* Save all warnings and instructions for future reference.

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

Work Area Safety

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

Electrical Safety

4. **Power tool plugs must match the outlet. Never modify the plug in anyway. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
5. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk o electric shock if your body is earthed or grounded.*
6. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
7. **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* **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.*
8. **If operating a power in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

   NOTE: The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

Personal Safety

9. **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.*
10. **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.*
11. **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 energising power tools that have the switch on invites accidents.*
12. **Remove any adjusting key or wrench before turning the tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
13. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
14. **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.*
15. **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.*
16. **Be careful and do not overlook these safety instructions due to your frequent use of this tool.** Some careless operation may cause serious injury momentarily.

Power Tool Use and Care

17. **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.*
18. **Do not use tool if switch does not turn it on or off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
19. **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.*
20. **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.*
21. **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.*

22. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
23. **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.*
24. **Keep the handle and grabbing surfaces dry and clean, and far away from grease.** *In unexpected situations, wet and greasy handle cannot ensure the safety and the control of the tool.*

Service

25. **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.*

VOLTAGE WARNING:

Before connecting the machine to a power source (receptacle, outlet, etc.), be sure the voltage supplied is the same as that specified on the nameplate of the machine. A power source with voltage greater than that specified for the machine can result in SERIOUS INJURY to the user, as well as damage to the machine. If in doubt, DO NOT PLUG IN THE MACHINE. Using a power source with voltage less than nameplate rating is harmful to the motor.

SPECIFICATIONS

Rated Power Input	300 W
Rated No-load Speed	4000-12000 r/min
Abrasive Disc Dia.	125 mm
Net Weight	1.4 kg

※ Due to the continuing program of research and development, the specifications herein are subject to change without prior notice.

ADDITIONAL SAFETY RULES

Instructions for All Operations

General Safety Warning for Sanding

a) This tool is used for sanding. Read all safety warnings, instructions, diagrams and stipulations.

b) This tool is not recommended to be used for some operations like cutting.

c) Do not use the accessory recommended or specially designed by other manufacturers.

d) The rated speed of the accessories must be at least no less than the maximum speed marked on the tool.

e) The external diameter and thickness of the accessory must be within the rated capacity of the tool.

f) The axle hole size of abrasive discs must in accordance with the spindle of the tool.

g) Do not use damaged accessories. Check the accessories like abrasive discs to see whether there is debris and cracks before every use. Check whether it is damaged if the tool falls, or replace with a new accessory. After checking and installing the accessory, keep yourself and bystanders far away from the rotating accessory and run the tool for 1 minute under the maximum no-load speed.

h) Wear protective equipment. Based on the situation, use mask, goggles or safety glasses. Wear dust mask, hearing protectors, gloves and apron which can protect you from some small segments or chips when applicable.

i) Bystanders must keep a safe distance from the working area. Anyone who enters the working areas must wear protective equipments.

j) Keep the soft lines far away from rotating parts.

k) Do not lay down the tool until the accessory stops completely.

l) Do not switch on the tool when carrying it.

m) Clean the air vents of the tool often.

n) Do not operate the tool near the inflammable materials.

o) Do not use the accessories which need cooling liquid.

Further safety Instructions for All Operation

a) Hold the tool firmly, and make sure your body and arms in a correct posture to resist bounce. If auxiliary handle is provided, always use it so as to maximum control the bounce or counter torque when the tool starts.

b) Never get close to rotating parts.

c) Do not stand on the place where the tool may move to when bouncing.

d) Be very careful when working on the sharp corners or edges. Avoid you from accessories bouncing or twining.

e) Do not attach the saw chain, blade or sawblade with teeth.

SAVE THESE INSTRUCTIONS.

WARNING! **MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.**

INSTRUCTIONS FOR OPERATION

Switch Action

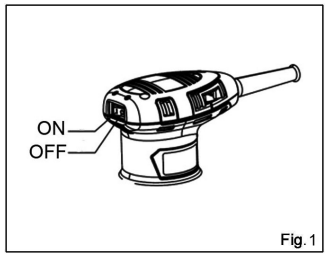


Fig. 1

1. Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the “OFF” position when released.
2. To make you feel comfortable, lock the switch in "ON" position during the operation. and make sure to grip the tool firmly. (**Fig. 1**)
3. To start the tool, simply press "ON" side of the switch and to stop the tool, press the "OFF" side.

Speed Adjusting Dial

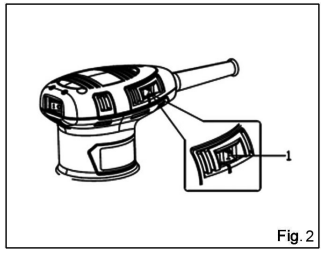


Fig. 2

The rotation speed can be adjusted from 4000 r/min to 12000 r/min by turning the speed adjusting dial to give number setting from 1 to 6. (**Fig. 2**)

Higher speed is obtained when the dial is turned in the direction of number 6. And lower speed is obtained when it is turned in the direction of number 1.

Installing or Removing the Abrasive Paper

CAUTION:

If you peel off the abrasive paper from the pad, the adhesion will be decreased, therefore, do not stick it to the pad for further use.

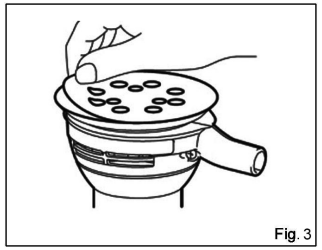


Fig. 3

To install the abrasive paper, first remove all dirt or foreign matter from the pad. Then carefully align the holes in the abrasive paper with those in the pad. (**Fig. 3**)

Installing Dust Bag

Install the dust bag on the tool so that it inclines upward. (**Fig. 4**)

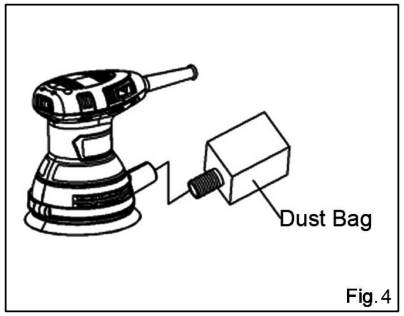


Fig. 4

Sanding Operation

Hold the tool firmly. Turn the tool on and then slightly apply it to the workpiece. (**Fig. 5**)

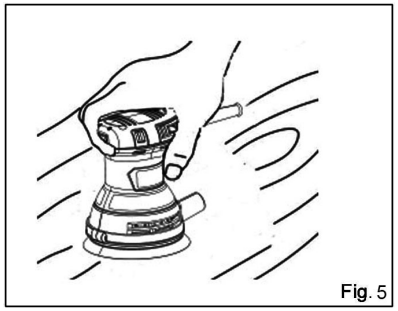


Fig. 5

Generally, this tool only applies to micro grinding for the surface of workpieces. The grinding quality is more important than the grinding amount and grinding rate. Thus, do not apply strong pressure to grind. Keep the baseplate aligned over the workpieces. Good finish can be obtained on the furniture or fine surface if put a cloth under the workpieces.

CAUTION:

- Never plug up the air outlet with your fingers or hand.
- Never run the tool without the abrasive paper. You may seriously damage the pad.
- This tool is not waterproof, and do not use water on the workpiece.

MAINTENANCE AND INSPECTION

CAUTION:

Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

1. Inspecting the Mounting Screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.

2. Maintenance of the Motor

The motor unit winding is the very “heart” of the power tool. Exercise due care to ensure the winding does not become damaged and /or wet with oil or water.

3. After Use

Do not lay down the tool on a place with chips or dirt before the tool stops completely.

4. Cleaning the Air Vents

The tool and its air vents have to be kept clean. Regularly clean the tool’s air vents or whenever the vents start to become obstructed.

5. Inspecting the Carbon Brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark (**Fig. 6**). Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

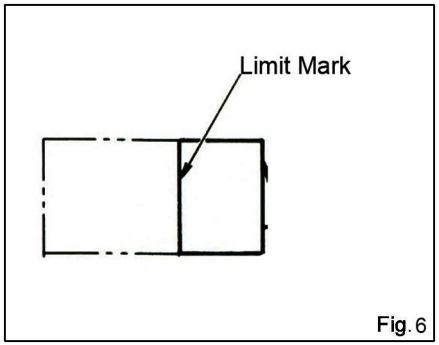


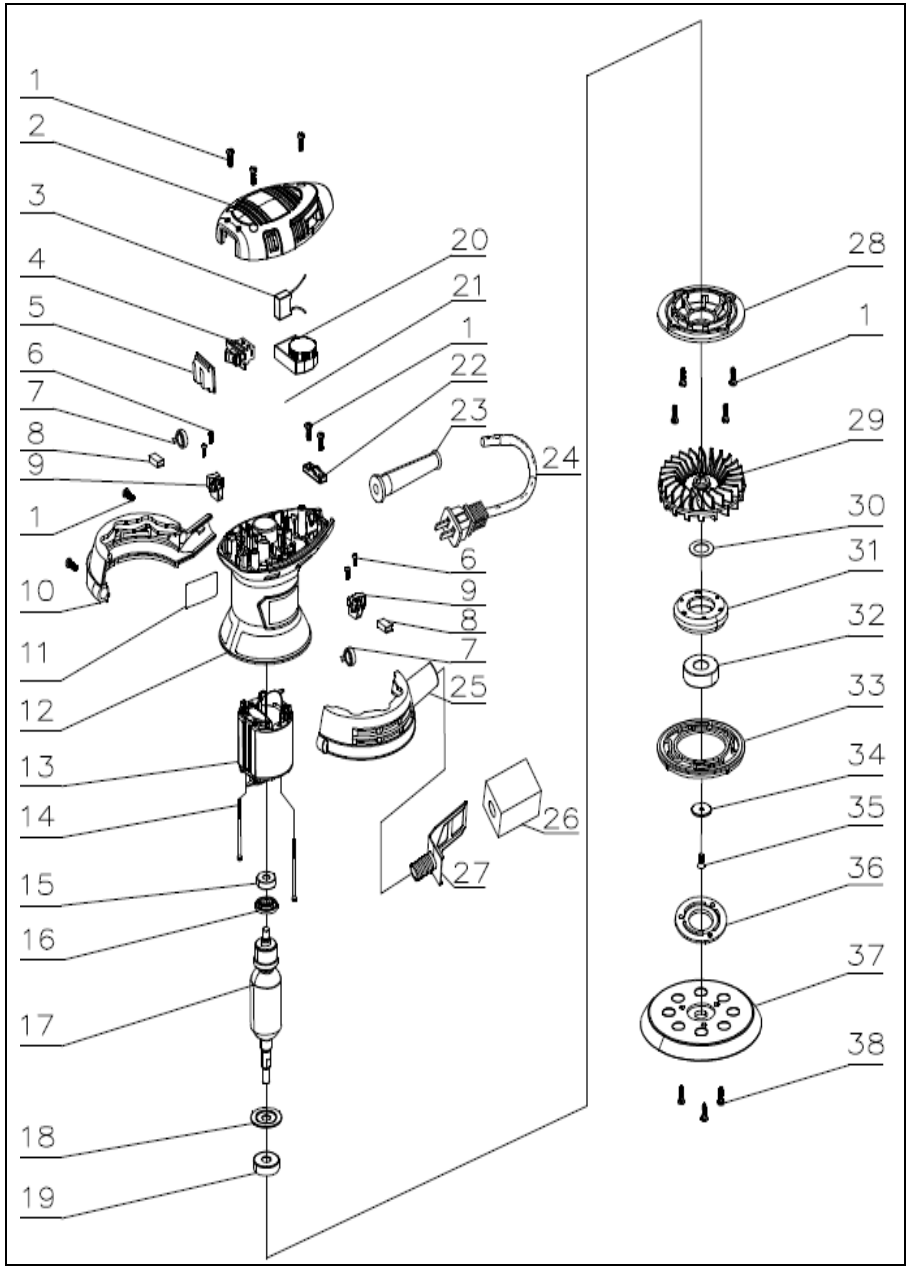
Fig. 6

6. Replacing the Carbon Brushes

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

※ Damaged cord must be replaced by a special cord purchased from authorized service center.

※ To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by authorized service centers, always using original replacement parts.



EXPLANATION OF GENERAL VIEW

1	Pan Head Tapping Screw	20	PCBA Speed adjusting Assembly
2	Rear Cover	21	Terminal Block
3	Capacitor	22	Strain Relief
4	Switch	23	Cord Guard
5	Rubber Pad	24	Cord
6	Pan Head Tapping Screw	25	Left Baseplate
7	Spring	26	Dust Bag
8	Carbon Brush	27	Dust collection rack
9	Carbon Brush Holder	28	Holder Plate
10	Right Baseplate	29	Fan
11	Nameplate	30	Shim
12	Motor Housing	31	Bearing Retainer
13	Stator	32	Ball Bearing
14	Pan Head Tapping Screw	33	Dustproof Ring
15	Ball Bearing	34	Washer
16	Insulation Washer	35	Cross Recessed Countersunk Head Screw
17	Armature Assembly	36	Bearing Retainer
18	Bearing Retainer	37	Abrasive Disc
19	Ball Bearing	38	Pan Head Screw (with Spring and Flat Washers)