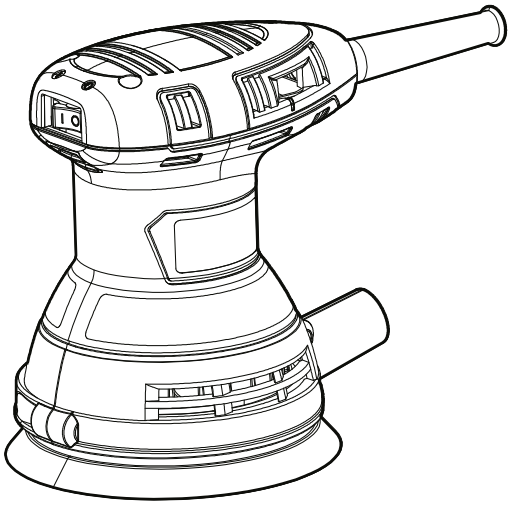
I. I. P. T. P. L
ideal®
POWER TOOLS

ID PEX125

Part No: 26310

RANDOM ORBIT SANDER



● Illustrations,figures and photos may vary slightly due to program of continuous product improvements, please in kind prevail.

OPERATION INSTRUCTIONS

General power tool safety warnings

WARNING 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.*

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.
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 fumes.*
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.*
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.*
c) **Do not expose power tools to rain or wet conditions.** *Water entering 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 tool. 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.*
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.*
b) **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.*
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 energising power tools that have the switch on invites accidents.*
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 jewellery. Keep your hair and clothing 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.*
h) **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.*

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 remove the battery pack, if detachable, 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 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.*

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 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.*

h) 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.*

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.*

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.

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.

Symbol


WARNING


To reduce the risk of injury, user must read instruction manual


Always Wear eye protection


Class II tool

Technical Data

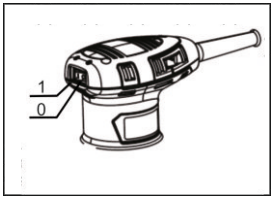
The machine is intended for dry sanding of wood, plastic, filler and coated surfaces.
The performance and specifications of this product are shown in the table below:

Model		ID PEX125
Rated Power Input	W	300
Rated Speed	/min	4000-12000
Cutting Disc Size	mm	Ø125
Net Weight Of The Machine	kg	1.4

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

INSTRUCTIONS FOR OPERATION

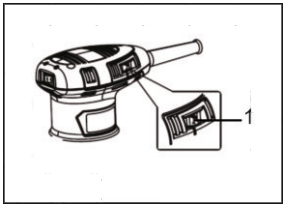
•Switch Operation
CAUTION:
Always be sure that the tool is switched off and unplugged before installing or removing the abrasive disc.



1.ON
0.OFF

1.Before plugging in the tool, always check to see that the switch actuates properly and returns to the "OFF" position.
2.Set the switch to the position of "1"for more comfortable operation during operation. Always grip the tools firmly.
3.Push the switch to the position of "1", the tool will be started. And push the switch to the position of "0" to stop machine.

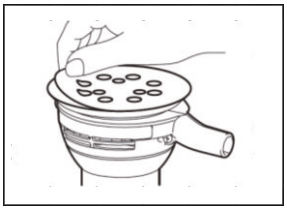
• Speed Control Dial



1. The rotation speed can be adjusted from 4000/min to 12000/min by turning the speed control dial.

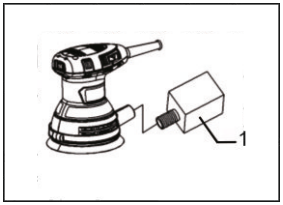
Higher speed is obtained when the dial is turned in the direction of number 6. And lower speed is obtained when it is turned in the direction of number 1.

• Installing or Removing the Abrasive Paper



1.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 and paste the abrasive paper firmly with your hand.
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.

• Installing Dust Bag



1.Dust Bag

1.Install the dust bag on the tool so that it inclines upward. As shown in the figure.

● Sanding Operation

1.Hold the tool firmly. Turn the tool on and then slightly apply it to the workpiece, as shown in the figure. 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 CARE

CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

● Check the mounting screws

Should always check whether mounting screw fastening safely. If found loose screws, shall be immediately to tighten, so as to avoid an accident.

● 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.

● After Use

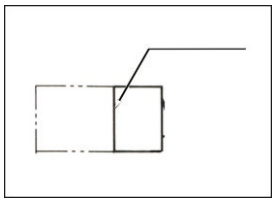
Do not put down the tool immediately after the tool is turned off. Wait until the tool completely stops before putting it down. This can not only avoid accidents, but also reduce a large amount of dust and fine debris being sucked into the tool.

● Clean the air vents

The air inlet and air outlet of the tool should be cleaned regularly or at any time when it is blocked.

● Check the Carbon Brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time.



1.Limit Mark

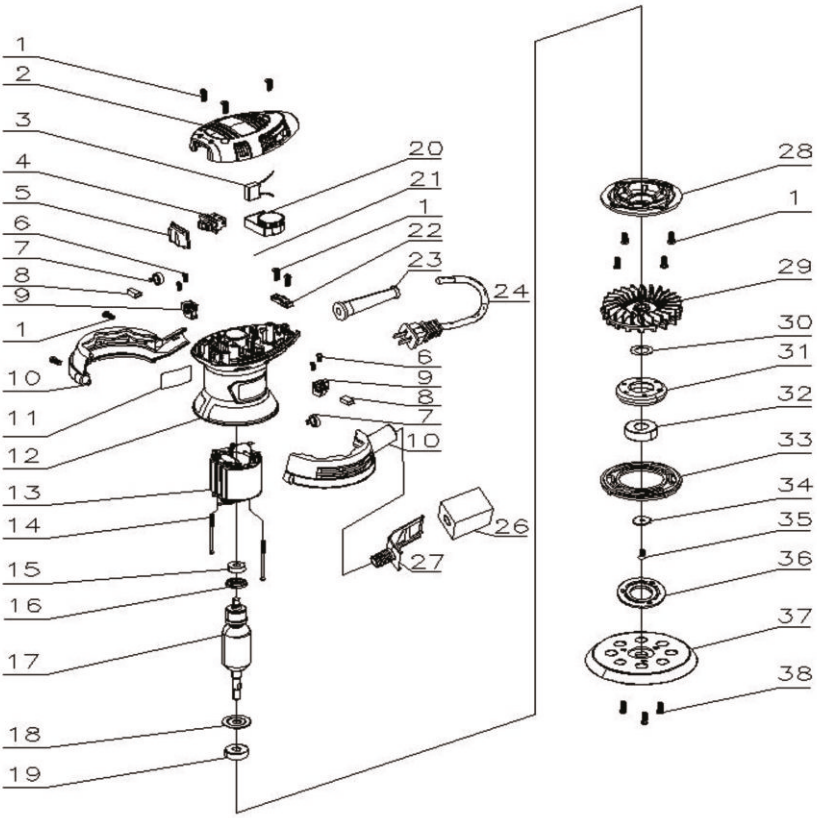
● Replace the Carbon Brushes

Use a screwdriver to remove the brush cover, take out the worn carbon bush and replace a new one, and then tighten the brush cover securely.

※If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

EXPLANATION OF GENERAL VIEW

1	Cross Recessed Pan Head Tapping Screw ST4.2×17	30	Washer
2	Rear Cover	31	Bearing Retainer
3	Capacitor0.22μF	32	Ball Bearing 6202
4	Switch	33	Dust Free Ring
5	Switch Dirt-Proof Boot	34	Washer
6	Cross Recessed Pan Head Tapping Screw ST2.9×9	35	Cross Recessed Countersunk Head Screw M4×10
7	Plane Coiled Coil Spring	36	Bearing Flange
8	Carbon Brush	37	Abrasive Disc
9	Brush Holder Assembly	38	Cross Recessed Pan Head Screw With Spring And Flat Washer M4×16
12	Motor Housing	T1	Left And Right Base Plate
13	Stator(Disk Sander)		
14	Cross Recessed Pan Head Tapping Screw ST4.2X55		
15	Ball Bearing 607SS		
16	Insulation Washer		
17	Armature (Disk Sander)		
18	Bearing Retainer		
19	Ball Bearing 629VV		
20	PCBA Assembly		
21	Terminal Block(Single)		
22	Strain Relief		
23	Cord Guard		
24	Cord		
26	Dust Bag		
27	Dust Collection Rack		
28	Holder Plate		
29	Eccentricity Fan		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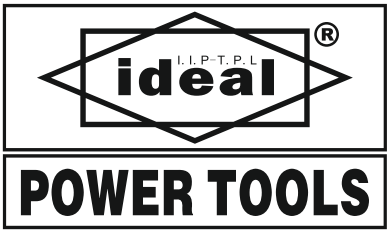
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