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Black（单色印刷）	
折叠方式：风琴折	备注：
特别注意：此页内容不印刷	

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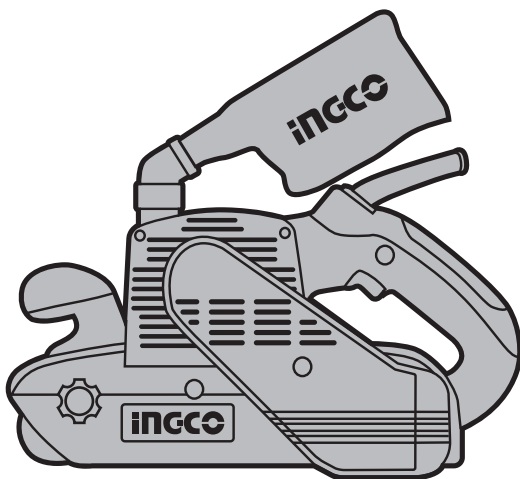
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	版本号	日期	设计师		

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**PRODUCT
MANUAL**

BELT SANDER



**PBS12001 UPBS12001 PBS12001-6 PBS12001-8
PBS12001-9 PBS12001S**



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.*

THE SYMBOLS IN INSTRUCTION MANUAL

	Double insulated for additional protection
	Read the instruction manual before using.
	CE conformity.
	Safety alert. Please only use the accessories supported by the manufacturer.
	Wear safety glasses, hearing protection and dust mask.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

ADDITIONAL SAFETY WARNING

⚠ WARNING! Contact with or inhalation of dusts arising from sanding applications may endanger the health of the operator and possible bystanders. Wear a dust mask specifically designed for protection against toxic dust and fumes and ensure that persons within or entering the work area are also protected.

⚠ WARNING! Use this tool in a well-ventilated area when sanding ferrous metals. Do not operate the tool near flammable liquids, gases or dust. Sparks or hot particles from sanding or arcing motor brushes may ignite combustible materials.

⚠ WARNING! Do not use the dust filter cassette or the dust extraction adaptor to store objects.

Hold power tool by gripping surfaces, because the belt may contact its own cord. Cutting a “live” wire may make exposed metal parts of the power tool “live” and shock the operator

RESIDUAL RISKS

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

- a) Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.
- b) Injuries and damage to property due to broken accessories that are suddenly dashed.

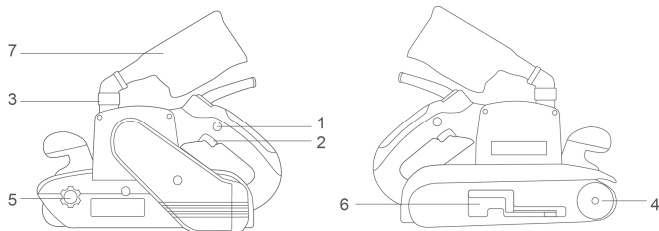
⚠ WARNING!

This power tool produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical.

INTENDED USE

Your belt sander has been designed for professional sanding of wood and plastics.

SPECIFICATIONS



1. On/Off -switch
2. Lock button
3. Dust extraction outlet
4. Belt rollers

5. Belt centring knob
6. Clamping lever
7. Dust bag

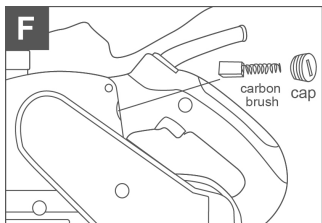
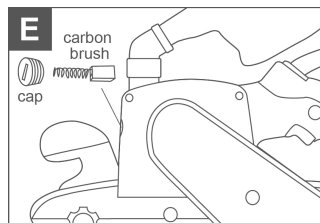
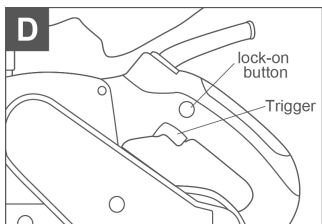
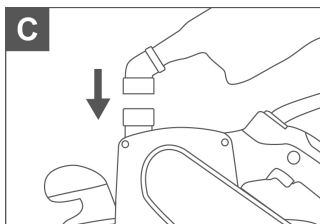
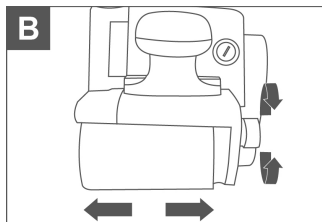
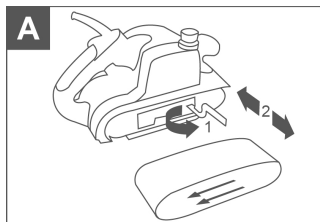
Technical specifications

Model No.	PBS12001 PBS12001-6 (ISRAEL Plug) PBS12001-8 (BS Plug) PBS12001S (SAA Plug) PBS12001-9 (INMENTRO Plug)	UPBS12001
Rated voltage	220-240V~50/60Hz	110-120V~50/60Hz
Rated input power	1200W	1200W
No-load speed	500m/min	500m/min
Belt dimensions	610x100mm	24 " x4 "
Net weight	6.0kg	6.0kg

Model No. Note: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

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

OPERATION PICTURE



OPERATION

Changing the sanding belt (see Figure A)

1. Pull out the belt tension lever.
2. Slide the old belt away from the rollers.
3. Slide the new sanding belt into position over the front and rear rollers, ensuring that the arrows on the sanding belt and on the tool are pointing in the same direction.
4. Push the sanding belt tension lever back into the recess to apply the tension.

Figure B

Having changed the belt, it is important to make sure that the belt runs square on the rollers. This is achieved by adjusting the tracking.

To adjust the tracking, proceed as follows:

1. Switch on the belt sander.
2. Adjust the tracking screw until the sanding belt is running in line with the flat side of the tool.
3. Turn the screw anti-clockwise to run the belt into the tool. Turn the screw clockwise to run the belt away from the tool.

Fitting the dust collection bag (see Figure C)

When using the belt sander, certain materials will generate harmful or toxic dusts and grit. For this reason, it is important to fit the dust collection bag. Do not allow the dust bag to get too full. Empty the bag before it becomes overloaded.

1. Put the plastic nozzle of the dust collection bag over the dust extraction outlet.
2. Push firmly home.
3. To empty the dust bag, grasp the bag by the plastic nozzle and pull away from the dust extraction outlet.

Operation (see Figure D)

1. Connect the plug to the mains socket and switch on.
2. Hold the sander firmly with both hands
3. Squeeze the trigger, the sander will start.
4. Release the trigger to stop the sander.

5. If continuous operation is required, squeeze the trigger, and depress the lock-on button and release the trigger.
6. To stop the belt sander, squeeze the trigger to release the lock-on button, then release the trigger.

Using the sander

1. Make sure that there are no nails or other objects in the area to be sanded.
2. Let the sander reach full speed before applying it to the work surface.
3. Do not apply pressure to the sander during use. The weight of the sander alone is sufficient for normal use.
4. Move the sander evenly over the work area. Do not allow the sander to stay in one place for too long, this will give an uneven finish.
5. Replace worn sanding belts. The performance of your sander is dependent on the quality of the sanding belts being used.
6. Remove the sander from the work area before releasing the trigger, (wait until the belt has stopped moving before putting the sander down).

Sanding hints

1. Always use both hands to hold the sander and clamp the workpiece for added stability and safety.
2. When sanding wood, always sand in the direction of the grain:
 - a. Do not exert pressure on the sander.
 - b. Regularly check the condition of the abrasive accessory and replace when necessary.
 - c. On very uneven surfaces or when removing layers of paint, start with a coarse grit. On other surfaces, start with a medium grit. In both cases, gradually change to a fine grit for a smooth finish.

After use clean out any accumulated dust etc. Keep the cooling vents clear. If the sander should become too hot, run it for 2 minutes without load.

Clean the housing with a soft cloth. Any worn or damaged parts should be replaced by qualified personnel. Keep the handles clean and free from oil and grease. Refer to qualified service personnel if internal maintenance is required.

Always store the belt sander in the carrying case.

Changing the carbon brushes (see Figure E)

1. With a suitable screwdriver, remove the carbon brush caps on either side of the belt sander.
2. Remove the carbon brush/spring assembly.
3. If the carbon brushes are worn down to 4mm, or less, replace them with the new brushes (1 spare set supplied).
4. Replace the carbon brush caps and tighten them.

NOTE: Both brushes must be replaced at the same time.

Trouble shooting

Sander is overheating

This indicates the machine is dirty. Clean the ventilation holes, and blow out with compressed air or clean with a dry cloth.

Overloading the machine will also cause overheating. Do not apply excessive pressure.

Excessive sparking occurs

This indicates worn brushes. This problem is quickly remedied but you should consult your CLARKE dealer for parts and advice.

Sander does not operate when switched on

Check to ensure the fuse is sound and replace if necessary. If the fuse is sound or blows repeatedly, consult your CLARKE dealer.

The dust is not extracted

Dust bag is full (empty waste bag), dust extractor flue is blocked, this is usually caused by allowing bag to become too full, (remove and empty bag, also clear blockage).

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

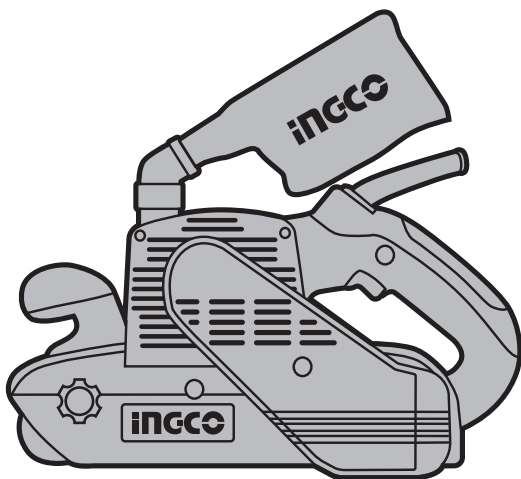
Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	• Switch failure • The power cord or wiring is broken, power cord plug malfunction; • No brush contact with the collector; • Wear/damage of brushes	Disconnect the machine from the mains and contact a qualified specialist.
Formation of a circular fire on the collector	• Brush wear/damage of the brush holder; • Malfunction in the armature coil	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
When working, smoke or the smell of burning insulation appears from the ventilation openings.	• Malfunction in the electric motor coil; • Malfunction of the electrical part of the tool.	
Increased noise in the gearbox	• Wear/breakage of gears or bearings	
When the machine is turned on, the spindle does not rotate	• Gearbox failure.	

Critical state criteria

Critical state criteria	Probable causes	Actions
Cracks on the surfaces of bearing and housing parts	Fatigue deformation of metal	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
The power cord or plug is damaged	Overload or breakage	
Excessive wear or damage to the motor or reductor mechanism, or a combination of signs	Fatigue deformation of metal	

Critical state criteria

List of critical failures	Actions
Electric motor sparking	It is necessary to contact a qualified specialist
The appearance of extraneous noise	It is necessary to contact a qualified specialist
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	



MADE IN CHINA 1223.V12

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