

**PB**  
**20**  
**VOLT**

*THE ORIGINAL*  
**PINK BOX**

**INSTRUCTION MANUAL**

# 20 Volt Cordless Detail Sander

*Part Number: PB20VSND*

**IMPORTANT:** Read before using.



*Compatible Batteries: PB20VLIB2 Battery (2.0 Ah)  
& PB20VLIB4 Battery (4.0 Ah)*

[www.theoriginalpinkbox.com](http://www.theoriginalpinkbox.com)



Keep these instructions with the accompanying tool for the life of the tool. Read all of the instructions before assembling, operating or maintaining this tool.

This manual has been compiled by *The Original Pink Box* Tools describing the purpose for which this tool has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both tool and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by *The Original Pink Box* Tools to help illustrate the operation of the tool.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, *The Original Pink Box* Tools policy of continuous improvement determines the right to make modifications without prior warning.



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# CONTENTS

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<b>CONTENTS</b>	
CONTENTS.....	3
<b>INTRODUCTION</b>	
SCOPE .....	4
SPECIFICATION .....	4
HANDLING AND STORAGE .....	4
<b>HEALTH AND SAFETY INFORMATION</b>	
GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE .....	5
ADDITIONAL SAFETY INSTRUCTIONS FOR SANDERS .....	5
RESIDUAL RISK .....	5
SAFETY INSTRUCTIONS FOR MAINS POWERED CHARGERS & BATTERY PACKS.....	5
CONNECTION TO THE POWER SUPPLY (CHARGER).....	5
<b>TECHNICAL DESCRIPTION</b>	
IDENTIFICATION .....	6
<b>PREPARING THE CORDLESS DETAIL SANDER</b>	
BATTERY PACK CHARGING .....	7-8
BATTERY PACK CHARGE STATUS.....	8
BATTERY PACK EFFICIENCY AND CHARGING ADVICE.....	8
<b>BASIC TRI-BASE SANDER OPERATIONS</b>	
SWITCHING ON/OFF .....	9
ABRASIVE SHEET INSTALLATION/REPLACEMENT.....	9
ABRASIVE PAPER.....	9
DUST.....	9
<b>MAINTENANCE AND TROUBLESHOOTING</b>	
MAINTENANCE .....	10
TROUBLESHOOTING .....	10
<b>DISPOSAL</b>	
DISPOSAL.....	11
BATTERY PACK DISPOSAL INFORMATION .....	11
<b>EXPLANATION OF SYMBOLS</b>	
EXPLANATION OF SYMBOLS .....	12



# INTRODUCTION

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## SCOPE

This tri-base sander is intended for domestic and infrequent light trade use only.

As part of our core range, this product is suitable for enthusiasts and tradespeople alike. Any application other than that it was intended for, is considered misuse.

## SPECIFICATION

Stock No.....	<b>PB20VSND</b>
Pad size.....	95x135x135mm
Sound pressure level (LpA)*: .....	77dB(A), K=3 db(A)
Sound power level (LWA)**: .....	88dB(A), K=3 db(A)
Uncertainty (K): .....	3dB(A)
Vibration level†:.....	6.7m/s <sup>2</sup> , K=1.5m/s <sup>2</sup>
Weight (machine only).....	0.8kg

†When sanding in wood.

Battery pack ( sold separately):

Part No. ....	<b>PB20VLB2</b> (2.0 Ah Battery) & <b>PB20VLB4</b> (4.0 Ah Battery)
Type .....	Li-ion
Rated Voltage .....	20V

Charger ( sold separately):

Part No. ....	<b>PB20VLC</b>
Rated Voltage .....	230V~
Rated Frequency .....	50Hz
Rated D.C. output voltage .....	21.5V
Rated D.C. output current .....	1.65A
Protective device rated current .....	8A
Construction .....	Class II

\* *Continuous A-Weighted Sound Pressure Level at the workstation in accordance to and declared according to EN60745.*

\*\* *The typical A-weighted noise level determined according to EN60745.*

## HANDLING & STORAGE

- Care must be taken when handling this product.
  - Dropping this power tool could have an effect on its accuracy and could also result in personal injury. This product is not a toy and must be respected.
- Environmental conditions can have a detrimental effect on this product if neglected.
  - Exposure to damp air can gradually corrode components.
  - If the product is unprotected from dust and debris, components will become clogged.
  - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.



## HEALTH AND SAFETY INFORMATION

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### SAFETY INSTRUCTIONS FOR MAINS POWERED CHARGERS & BATTERY PACKS

#### Chargers

- The charger is for indoor use only.
- Prior to plugging the charger in to the supply, check that the plug and the cable are in good repair. If either are damaged, have the defective item replaced immediately by a suitably qualified person. If the casing of the battery charger is damaged, it is good policy to have the charger checked over by a suitably qualified person.
- Only use a correctly rated mains outlet to provide power, do not plug into site generators, attach to engine generators or D.C. sources. Do not use a mains socket outlet that is not switched.
- Use the correct **The Original Pink Box** charger (PB20VLIC) in conjunction with its corresponding battery packs (**PB20VLIB2** (2.0 Ah Battery) & **PB20VLIB4** (4.0 Ah Battery))
- Do not charge any other batteries with the **The Original Pink Box** PB20VLIC Charger. Any other application is considered misuse.
- Do not attempt to charge battery packs that are too hot (over 30°C) or too cold (under 5°C), if these conditions apply set the battery pack aside to “normalise” before proceeding with the charging operation.
- Set up the charger and cable in a safe place where it won't be knocked, tripped over, stepped on, etc. and where it is well ventilated. Make sure the ventilation slots in the charger case are not obstructed, plug the charger into the socket outlet.
- Inspect the battery pack for damage, if it is undamaged, plug it into the charger, ensuring the correct orientation. (Most chargers and batteries have ‘keys’ etc, to make sure the battery pack is not inserted incorrectly, if you are having to ‘force’ the battery pack into the charger, the chances are you have it the wrong way round, check and try again.)
- Switch the charger on and check that the correct indicators illuminate, allow the battery pack to charge (see the specific instructions for your charger). Once charging is complete, switch the charger off, remove the battery pack and store, repeat the procedure if you have more than one battery pack to charge.

**Caution:** When the battery charger has been continuously used, the battery charger will be hot. Once the charging has been completed, give 15 minutes rest until the next charge.

- After charging is complete, unplug the charger from the socket outlet by pulling on the plug. Do not pull on the cable. Store the charger in a dry secure place.
- If, when the charger was switched on, the correct indications did not occur, leave for two or three minutes to allow the charger to stabilise, if the correct indications occur, allow the charging cycle to proceed as normal. If no indication appears at all, switch off, remove the battery pack, unplug the charger, check that the charger contacts and the battery contacts are clean and repeat the process. If there is still no indication, switch off, remove the battery pack, unplug the charger and check the fuse. If the fuse is blown, replace and repeat the process. If the fuse blows again, or if the fuse was intact, attempt no further action. Refer the charger to a suitably qualified person for repair.

## TECHNICAL DESCRIPTION

### IDENTIFICATION



- ① Soft grip.
- ② On/off switch.
- ③ Backing pad.

- ④ Hook and loop pad.
- ⑤ Motor ventilation grilles.
- ⑥ Dust collection box.

## BATTERY PACK CHARGING –

This power tool is sold without a battery (or charger) both can be purchased at:

[www.theoriginalpinkbox.com](http://www.theoriginalpinkbox.com)

**Important:** *Only The Original Pink Box* rechargeable battery packs and charger can be used in conjunction with this tool. Use of any other third party battery packs/chargers with this tool is considered misuse and will invalidate the product's warranty.

Once connected to the mains supply, recharging of the battery can be left generally unsupervised, requiring minimal attention. Complex circuit construction monitors the battery condition, adjusting the recharge current to suit. When the recharge cycle is complete, to maintain the full capacity, a low output current will continue as required.

**Warning!** Check the condition of the charger and battery prior to each charge. If there is any sign of damage then do not commence charging, seek advice from *The Original Pink Box* tools at: [theoriginalpinkbox.com](http://theoriginalpinkbox.com)

The battery pack is supplied un-charged and must be charged before initial use.

To charge the battery pack (8), it must first be removed from the tool.

To release the battery pack:

- Press the battery release button (8.1) and gently slide the battery pack off (Fig.1).
- Plug the battery charger (7) unit into a 230V/AC 13amp three pin supply socket.
- The red LED (7.1) will illuminate to show the charger has power.
- Slide the battery into the charger (the battery is shaped to fit into the charger one way only).
- After a few seconds delay, the red LED (7.1) will flash to show that charging has begun, then illuminate solid red.
- Whilst the battery is charging, the green LED (7.2) will flash, (the red LED will go from flashing to constant red).
- When the battery is fully charged when the green LED stops flashing and remains a constant green. The red LED will extinguish.

**Caution:** Do not pull the plug out of the power supply by pulling on the cord. Make sure to grasp the plug when removing from power supply to avoid damaging the cord.

To remove the battery from the battery charger:

- Supporting the battery charger with hand, pull out the battery from the battery charger.

**Caution:** If the battery charger has been in continuous use it will be hot. Once the charging has been completed, leave the charger 15 minutes to cool until next use.

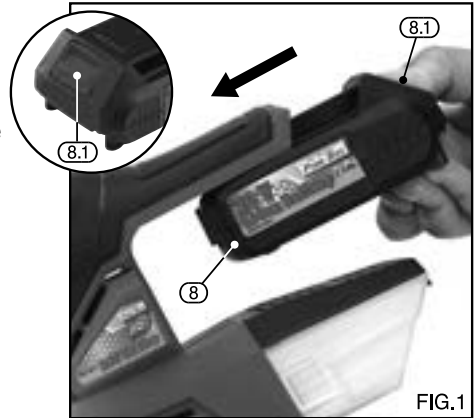


FIG.1

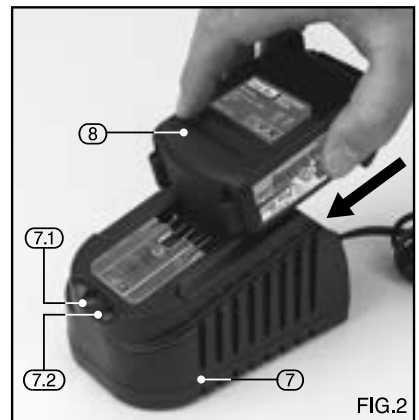


FIG.2



## PREPARING THE BRUSHLESS DETAIL SANDER

If the battery is charged when it is warm due to battery use or exposure to sunlight, the battery will not be recharged. In such a case, let the battery cool before charging.

If the red indicator flickers rapidly at 0.2 second intervals, check or and remove any foreign objects in the charger's battery slot. If there are no foreign objects, it is probable that the battery or charger is malfunctioning. Allow battery/charger to normalise and try again. If a fault remains after trying this then contact [The Original Pink Box](#) tools.

### BATTERY PACK PROTECTION FEATURES

**Overcharging protection:** This feature that ensures that the battery pack can never be overcharged. When the battery pack reaches full charge capacity, the transformer/charger will automatically shut off, protecting the internal components from being damaged.

**Over-discharging protection:** This feature will stop the battery pack from discharging beyond the recommended lowest safety voltage.

**Overheating protection:** The battery pack contains an internal thermistor cut-off sensor which shuts off the battery pack should it become too hot during operation. This can happen if the tool is overloaded or being used for extended periods. Up to 30 minutes cooling time may be required, depending on ambient temperature.

**Current protection:** Should the battery be overloaded and the maximum current draw be exceeded, the battery will shut off to protect the internal components. The battery pack will resume working once excessive current draw has returned to normal, safe level.

**Short circuit protection:** If, for any reason, the battery pack was to short circuit, the short circuit protection would immediately stop the battery pack from operating.

### BATTERY PACK CHARGE STATUS – FIG. 3

To display the amount of charge left in the battery pack, press the charge level indicator button (8.2).

### BATTERY LIFE EFFICIENCY AND CHARGING ADVICE

- Avoid recharging at high temperatures.  
A rechargeable battery will be hot immediately after use. If such a battery is recharged immediately after use, its internal chemical substance will deteriorate, and the battery life will be shortened. Leave the battery and recharge it after it has cooled for a while.
- The battery should only be used and/or charged when battery temperature is between 41°F (5°C) and 86°F (30°C.)
- The battery needs to be warmed-up or cooled down in order to prevent damage to the batteries internal components,

**Note:** If battery is too hot or too cold, allow it to 'normalise' before use or charging.

**Note:** Failure to warm up or cool down a battery could result in serious damage to the battery, charger and user.



FIG. 3





## BASIC BRUSHLESS DETAIL SANDER OPERATIONS

**Note:** Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

### SWITCHING ON/OFF – FIG. 1

Ensure the sander is raised off the workpiece.

To start the sander place the switch (2) to the “1” position. To stop the sander place the switch into the “0” position.

This machine is intended for light/medium duty sanding of wood and similar materials only.

Apply equal pressure on the workpiece with the base pad remaining flat. Attempting to sand areas using only the edge will lead to damage to the base pad.

**NOTE:** Excess pressure when sanding reduces the effectiveness of tool and will cause the motor to overload.

Do not overload this machine.

Abrasive sheets are consumable items. Replace abrasive sheets when clogged with material or when surface/edge has rips, cracks or worn areas.

### ABRASIVE SHEET INSTALLATION/REPLACEMENT – FIG. 2

The sanding sheets are simply pressed onto the base pad. The holes in the sander must correspond to the holes in the sanding sheet for maximum dust extraction.

### ABRASIVE PAPER

Only use good quality abrasive paper as this will improve the sanding efficiency and reduce working time. Use coarse grade (40, 60, or 80) sanding sheets when large quantities of material need to be removed. For finishing operations use 120 grade sanding sheets.

**Note:** Abrasive sheets and the sander base pad are consumable items.

### DUST – FIG. 3

Inhalation of dust particles can be detrimental to health. The dust outlet can be connected to a dust extraction machine.

The dust extraction box can be used instead when connection to a dust extractor is not practical to reduce amount of air borne dust.

The dust box is attached by simply pushing it onto the outlet port until the sides of the box meet the body of the sander.

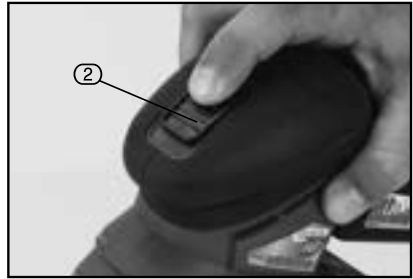


FIG. 1



FIG. 2



FIG. 3



## MAINTENANCE AND TROUBLESHOOTING

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### MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition.

The motor must be correctly ventilated during tool operation. Avoid blocking the air inlets and vacuum the ventilation slots regularly.

### TROUBLESHOOTING

Problem	Possible Cause	Remedy
Motor does not start.	<ol style="list-style-type: none"><li>1. Battery flat.</li><li>2. Battery faulty.</li><li>3. Other.</li></ol>	<ol style="list-style-type: none"><li>1. Charge.</li><li>2. Replace.</li><li>3. Contact an authorised service centre.</li></ol>
Reduced sanding efficiency.	<ol style="list-style-type: none"><li>1. Abrasive sheet worn, clogged or cracked.</li></ol>	<ol style="list-style-type: none"><li>1. Replace abrasive sheet.†</li></ol>



## DISPOSAL

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### DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE\* as unsorted municipal waste.



**Li-ion**

\* Waste Electrical & Electronic Equipment.

### BATTERY PACK DISPOSAL INFORMATION

#### Warning!

- Do not put battery pack in fire or mutilate – cells may burst or release toxic materials.
- Do not short circuit cells, may cause burns.
- The battery pack must be removed from the appliance before it is scrapped.
- The battery pack is to be disposed of safely.
- Do not mutilate batteries, corrosive electrolyte will be released.
- Do not dispose of batteries or cells in a charged condition.

Expired batteries must be recycled/disposed of in accordance with the appropriate regulation or legislation. They should be returned to your local warranty agent/stockist.



# EXPLANATION OF SYMBOLS

## EXPLANATION OF SYMBOLS



Read the instruction manual.



Wear face mask and safety glasses.



Wear ear defenders.



Wear protective gloves.



Long and loose hair must be contained or securely tied back.



Do not abandon into the environment.



Keep out of the reach of children.



Warning!



Single value noise marking.  
*(Maximum declared A-Weighted sound power level in decibels).*



Class II construction  
*(Double insulated).*



WEEE –  
Waste Electrical & Electronic Equipment.  
*Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish.*



Lithium-ion product.

**Li-ion**



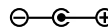
Do not incinerate or throw onto fire.



For indoor use only.  
Do not expose to rain.



Fuse.



Polarity indication.



Rated voltage.





[www.theoriginalpinkbox.com](http://www.theoriginalpinkbox.com)