









Intended use

Your BLACK+DECKER KA900E Belt Sander Powerfile™ has been designed for sanding wood, metal, plastics and painted surfaces. This tool is intended for consumer use only.

Safety instructions

General power tool safety warnings



Warning! Read all safety warnings, instructions, illustrations and specifications provided with power tool. Failure to follow the warnings and 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 all of the warnings listed below 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 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, clothing and gloves 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 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.
 - 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 tools 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 greasy 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.

Additional power tool safety warnings



Warning! Additional safety warnings for sanders



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 dust and fumes and ensure that persons within or entering the work area are also protected.

- ◆ **Hold the power tool by insulated gripping surfaces, because the sanding surface may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ◆ **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.



Warning! Take special care when sanding some woods (e.g. beech, oak) and metal which may produce toxic dust. 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 sand magnesium! There is a risk of fire or explosions.

- ◆ Thoroughly remove all dust after sanding.
- ◆ The intended use is described in this instruction manual. The use of any accessory or attachment or performance of any operation with this tool other than those recommended in this instruction manual may present a risk of personal injury and/or damage to property.

Safety when sanding paint



Warning! Observe the applicable regulations for sanding paint. Pay special attention to the following:

- ◆ Whenever possible, use a vacuum extractor for dust collection.
- ◆ Take special care when sanding paint which is possibly lead based and may produce toxic dust:
 - ◆ Do not let children or pregnant women enter the work area.
 - ◆ All persons entering the work area should wear a mask specially designed for protection against lead paint dust and fumes.
 - ◆ Do not eat, drink or smoke in the work area.
- ◆ Dispose of dust particles and any other removal debris safely.

Safety of others

- ◆ This charger can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- ◆ Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Residual risks

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided. These include:

- ◆ Injuries caused by touching any rotating/moving parts.

- ◆ Injuries caused when changing any parts, blades or accessories.
- ◆ Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- ◆ Impairment of hearing.
- ◆ Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)

Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN62841 and may be used for comparing one tool with another. The declared vibration emission value may also be used in a preliminary assessment of exposure.

Warning! The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used. The vibration level may increase above the level stated.

When assessing vibration exposure to determine safety measures required by 2002/44/EC to protect persons regularly using power tools in employment, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time.

Labels on tool

The following symbols are shown on the tool along with the date code:



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



Always wear gloves when working with metal workpieces.



Wear safety glasses or goggles when using the tool.



Wear ear protection when using this tool.



Fit the dustbag or dust cassette before using the tool on wooden workpieces.



Remove the dustbag or cassette and fit the deflector before using the tool on workpieces containing metal.

Electrical safety



This tool is double insulated; therefore no earth wire is required. Always check that the power supply corresponds to the voltage on the rating plate.

- ◆ If the supply cord is damaged, it must be replaced by the manufacturer or an authorised BLACK+DECKER Service Centre in order to avoid a hazard.

Features

This tool includes some or all of the following features.

1. Variable speed control knob
2. On/off switch
3. Lock-on button
4. Secondary handle
5. Belt tensioning lever
6. Belt tracking knob
7. Straight arm

Fig. A

9. Narrow arm (Where supplied)
10. Cranked arm (Where supplied)

Fig. D

13. Dustbag (Where supplied)
14. Dust cassette
15. Deflector

Assembly

Warning! Before assembly, make sure that the tool is switched off and unplugged.

Fitting and removing sanding arms (fig. A)

Before first use, you must fit a sanding arm to the tool. Your tool is supplied with the following:

- ◆ A straight arm (7, sanding width 13 mm).

These parts are also available as an accessory from your BLACK+DECKER dealer, (not available in Australia and New Zealand).

Fitting

- ◆ Make sure that the belt tensioning lever (5) is in the position shown.
- ◆ Loosen and remove the belt tracking knob (6).
- ◆ Remove the tape retaining the spring (8) (if present).
- ◆ Check that the spring (8) is located in its mounting hole.
- ◆ Position the arm (7, 9 or 10) as shown.
- ◆ Fit the belt tracking knob (6) and tighten it until the arm (7) is aligned with the tool.

Removing

- ◆ Remove the sanding belt (12) (if present) as described below.
- ◆ Loosen and remove the belt tracking knob (6).
- ◆ Remove the arm (7, 9 or 10).

Warning! Be careful not to lose the spring (8).

Fitting and removing sanding belts (fig. B)

Warning! The spring must be fitted. Be careful not to lose the spring (8).

Fitting

- ◆ Move the belt tensioning lever (5) to the front position (A).
- ◆ Make sure that the arrows on the inside of the sanding belt (12) face the same direction as the arrows (17) on the housing.
- ◆ Place the sanding belt (12) over the front pulley (11) and the rear pulley (16), sliding it through the slot in the housing.
- ◆ Move the belt tensioning lever (5) to the rear position (B).
- ◆ Adjust the belt tracking as described below.

Removing

- ◆ Move the belt tensioning lever (5) to the front position (A).
- ◆ Slide the sanding belt (12) off the pulleys.

Adjusting the sanding belt tracking (fig. C)

- ◆ Switch the tool on.
- ◆ Turn the belt tracking knob (6) as required until the sanding belt runs straight along the length of the arm.

Fitting and removing the dust cassette or the dust bag (fig. D, E and F) (Where supplied)

Warning! Always remove the dustbag or dust cassette and fit the deflector when using the tool on metal workpieces.

Fitting

- ◆ Fit the dust cassette (14) or the dustbag (13) over the dust extraction outlet.
- ◆ Slide the item (13 or 14) onto the tool and make sure that it is securely located.

Removing

- ◆ To remove the dust cassette (14), or the dustbag (13), pull the item (13 or 14) to the rear and off the outlet.

Fitting and removing the deflector (fig. D and E)

Warning! The deflector must be used when sanding metal workpieces.

Fitting

- ◆ Fit the deflector (15) over the dust extraction outlet.

- ◆ Slide the deflector (15) on to the tool and make sure that it is securely located.

Removing

- ◆ To remove the deflector (15), pull the deflector to the rear and off the outlet.

Use

Warning! Let the tool work at its own pace. Do not overload.

Variable speed control (fig. G)

The variable speed control (1) allows you to adapt the speed of the tool to the workpiece material.

Use a low speed setting when using a fine grit, when working with plastics or ceramics and when removing painted or varnished surfaces.

Use a high speed setting when using a coarse grit and when removing a lot of material.

- ◆ Set the variable speed control knob (1) to the required setting.

Switching on and off (fig. G)

- ◆ To switch the tool on, press the on/off switch (2).
- ◆ To switch the tool off, release the on/off switch (2).
- ◆ For continuous operation:
 - Press the on/off switch (2).
 - Press the lock-on button (3).
 - Release the on/off switch (2).
- ◆ To switch the tool off when in continuous operation, press and release on/off switch (2).

Emptying the dust cassette (fig. F) (Where supplied)

The dust cassette (14) should be emptied every 10 minutes.

- ◆ Pull the dust cassette (14) to the rear and off the tool.
- ◆ Remove the cover (19) by twisting it counter-clockwise.
- ◆ Hold dust cassette (14) with the filter (18) facing down and shake the cassette (14) to empty the contents.
- ◆ Shake the cover (19) to empty the contents.
- ◆ Refit the cover (19) onto the dust cassette (14), twisting it clockwise until it locks into place.
- ◆ Refit the dust cassette (14) onto the tool.

Cleaning the dust cassette filter (fig. F) (Where supplied)

Warning! Do not brush or use compressed air or sharp objects to clean the filter. Do not wash the filter.

- ◆ The dust cassette filter (18) is re-usable & should be cleaned regularly.
- ◆ Empty the dust cassette (14) as described above.
- ◆ Pull the filter (18) off the dust cassette (14).
- ◆ Shake off the excess dust by tapping the filter (18) into a dustbin.

- ◆ Replace the filter (18).
- ◆ Fit the cover (19).
- ◆ Slide the dust cassette (14) on to the tool and make sure that it is securely located.

Emptying the dustbag (fig. E) (Where supplied)

The dustbag (13) should be emptied every 10 minutes of use.

- ◆ Pull the dustbag (13) to the rear and off the tool.
- ◆ Hold the spout down and shake the dustbag (13) to empty the contents.
- ◆ Slide the dustbag (13) on to the tool and make sure that it is securely located.

If necessary, the dustbag (13) can be removed from its frame and washed. Let it dry before refitting it.

Special applications (fig. H, I & J)

Cranked arm (fig. H) (Where supplied)

- ◆ Use section A for grooving or sanding in the centre of workpieces and in confined areas.
- ◆ Use section B for curved surfaces.

Straight arm (fig. I)

- ◆ Use the normal or narrow arms for general use, for slotting and for making joints.

Narrow arm (fig. J) (Where supplied)

- ◆ Use the narrow arm for finer detail, for cutting and for carving.

Hints for optimum use

- ◆ Always hold the tool with both hands.
- ◆ Do not exert too much pressure on the tool.
- ◆ Regularly check the condition of the sanding belt (12). Replace when necessary.
- ◆ Always sand with the grain of the wood.
- ◆ When sanding new layers of paint before applying another layer, use extra fine grit.
- ◆ Consult your retailer for more information on available accessories.

Maintenance

Your tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Warning! Before performing any maintenance, switch off and unplug the tool.

- ◆ Regularly clean the ventilation slots in your tool using a soft brush or dry cloth.
- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

Mains plug replacement (U.K. & Ireland only)

If a new mains plug needs to be fitted:

- ◆ Safely dispose of the old plug.
- ◆ Connect the brown lead to the live terminal in the new plug.
- ◆ Connect the blue lead to the neutral terminal.

Warning! No connection is to be made to the earth terminal.

Follow the fitting instructions supplied with good quality plugs. Recommended fuse: 5 A.

Protecting the environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions. Further information is available at www.2helpU.com

Technical data

		KA900E Type 1
Voltage	V_{bc}	230
Power input	W	350
No-load speed	min^{-1}	900-1,600
Weight	kg	1.6

Level of sound pressure according to EN 62841:

L_{pa} (sound pressure) 84 dB(A), Uncertainty (K) 3 dB(A)

L_{wa} (sound power) 95 dB(A), Uncertainty (K) 3 dB(A)

Vibration total values (triax vector sum) according to EN 62841:

Vibration emission value (a_w) 1.7 m/s^2 , uncertainty (K) 1.5 m/s^2

EC declaration of conformity

MACHINERY DIRECTIVE



KA900E Belt Sander Powerfile™

Black & Decker declares that these products described under "technical data" are in compliance with:
EN62841-1:2015, EN62841-2-4:2014.

These products also comply with directive
2006/42/EC, 2014/30/EU and 2011/65/EU.

For more information, please contact Black & Decker at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of Black & Decker.

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06/02/2019

Guarantee

Black & Decker is confident of the quality of its products and offers consumers a 24 month guarantee from the date of purchase. This guarantee is in addition to and in no way prejudices your statutory rights. The guarantee is valid within the territories of the Member States of the European Union and the European Free Trade Area.

To claim on the guarantee, the claim must be in accordance with Black & Decker Terms and Conditions and you will need to submit proof of purchase to the seller or an authorised repair agent. Terms and conditions of the Black & Decker 2 year guarantee and the location of your nearest authorised repair agent can be obtained on the Internet at www.2helpU.com, or by contacting your local Black & Decker office at the address indicated in this manual.

Please visit our website www.blackanddecker.co.uk to register your new Black & Decker product and receive updates on new products and special offers.

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