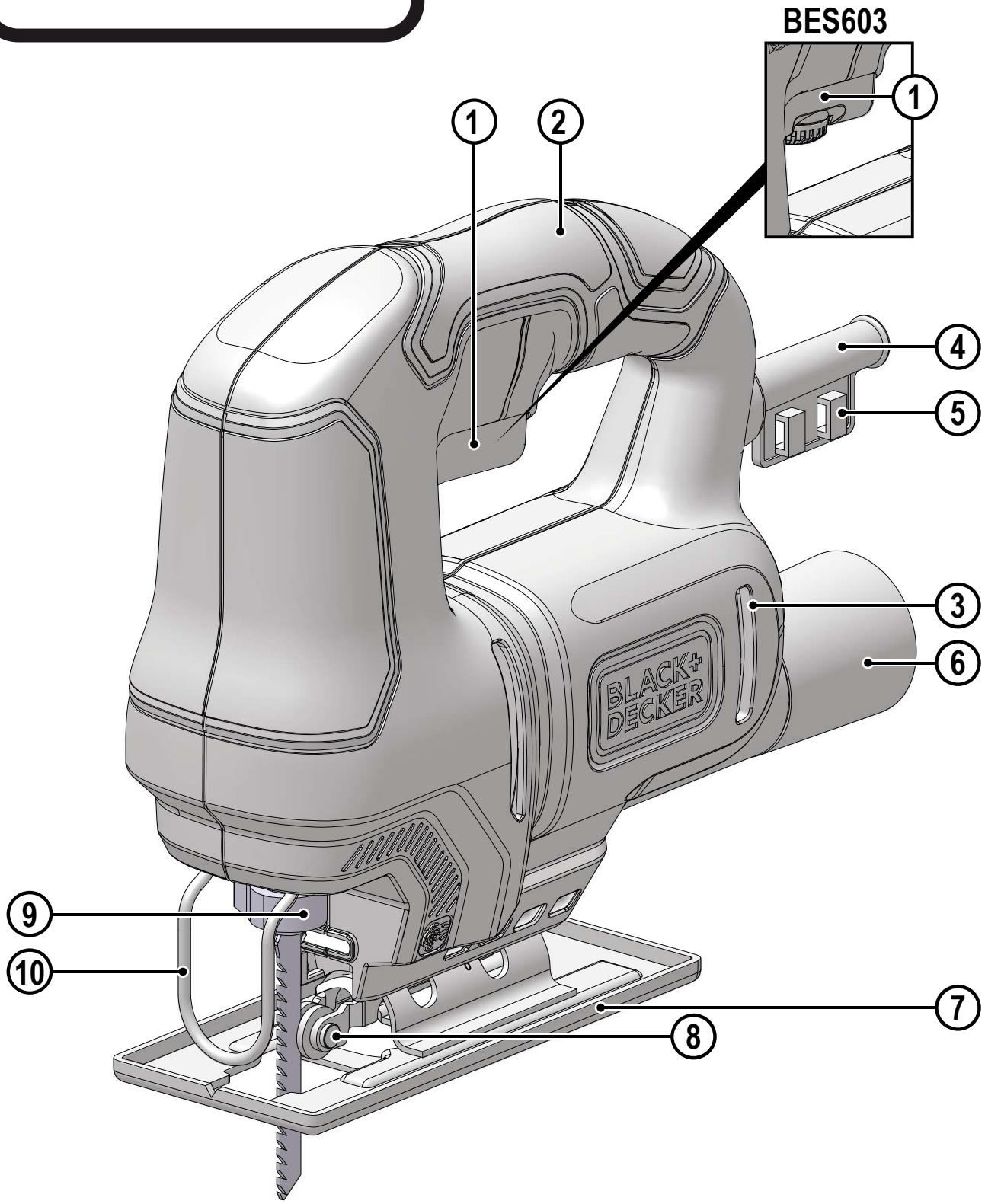
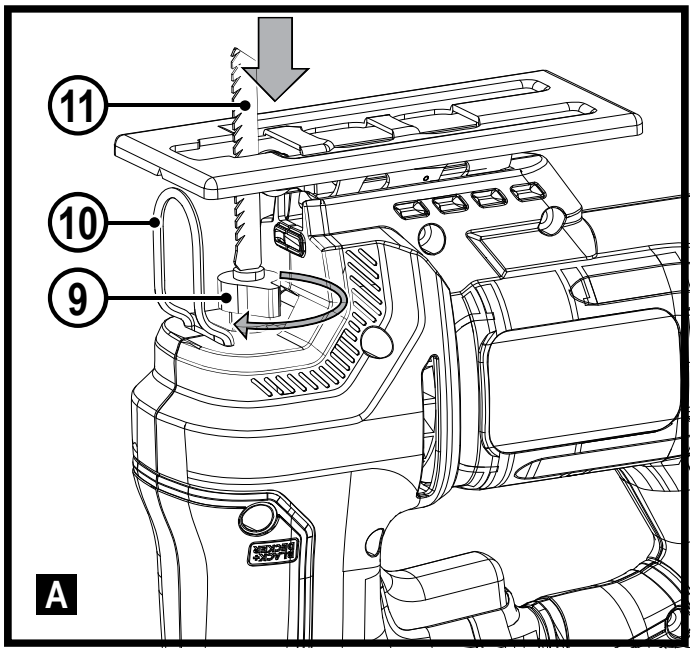
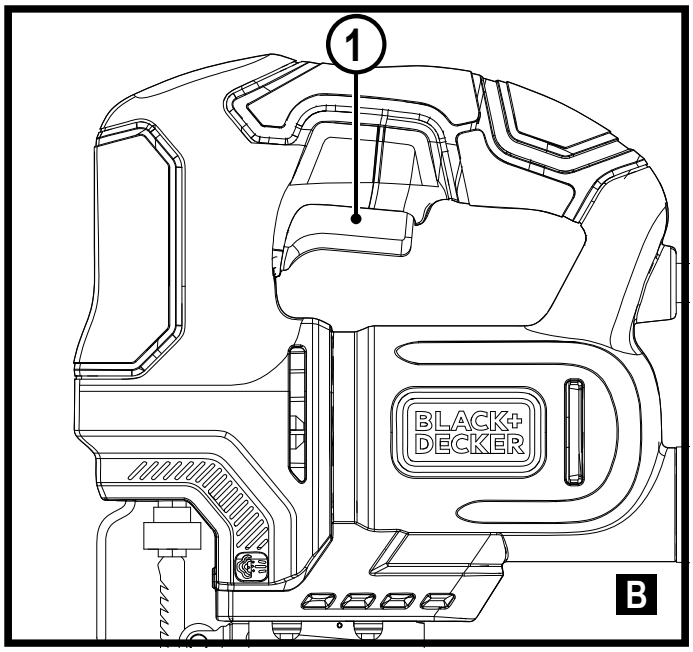
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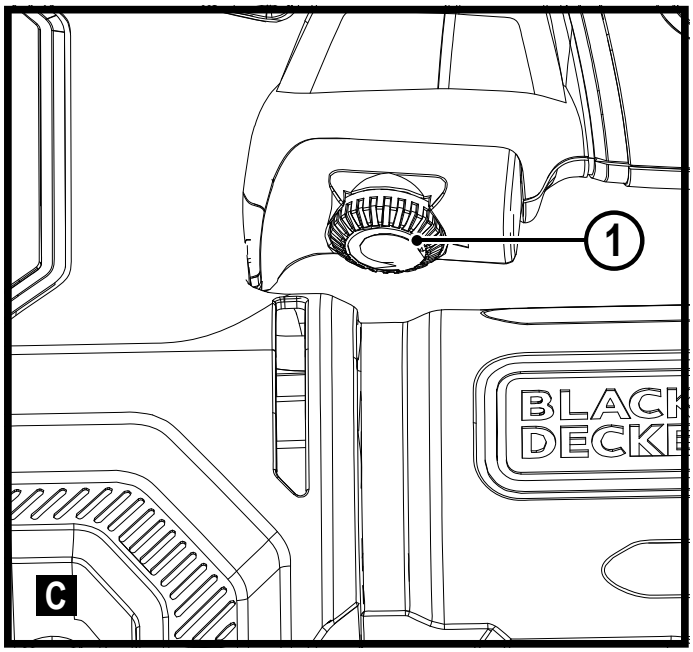


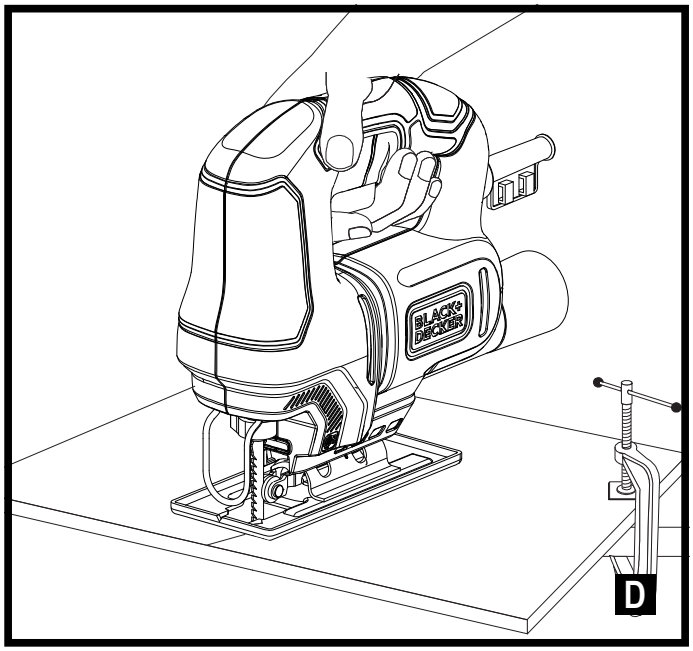
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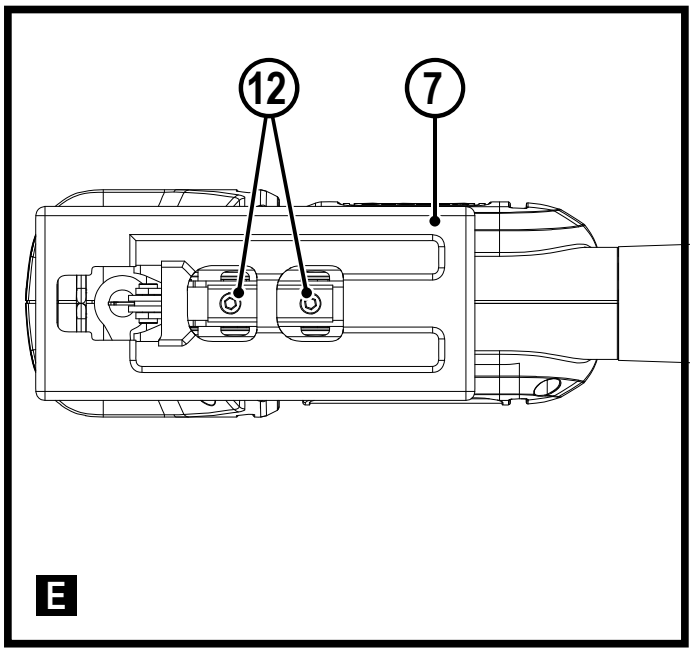
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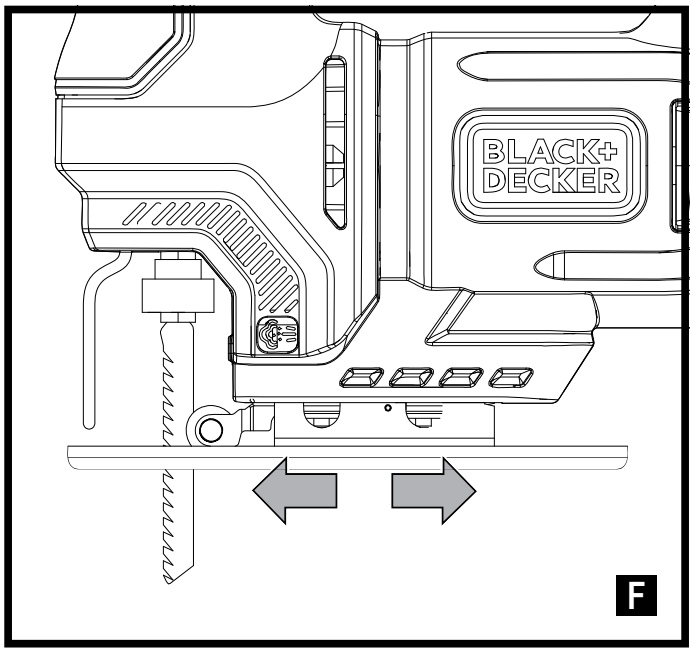

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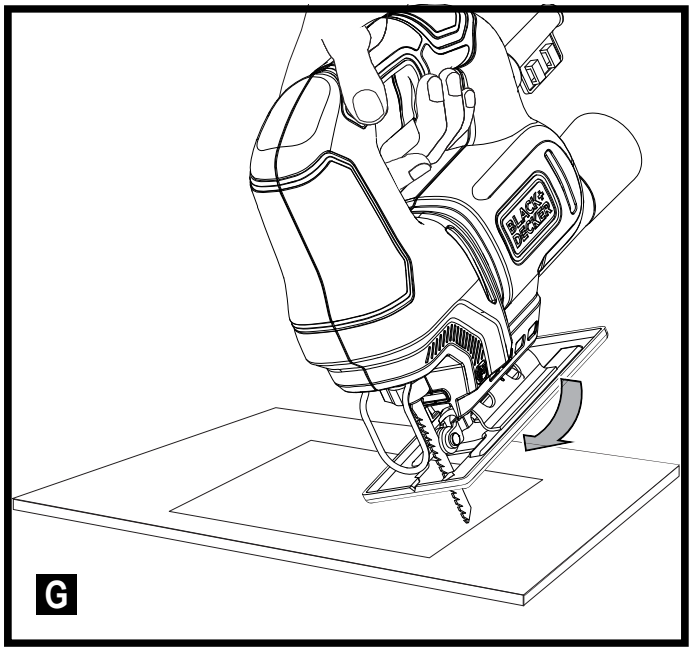

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BLACK+
DECKER
B


1
C


D


12
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E


BLACK+
DECKER
F



Intended use

Your BLACK+DECKER™ BES602/BES603 jigsaws have been designed for sawing wood, plastics and sheet metal. These tools are intended for consumer use only.

Safety 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 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 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.

Additional power tool safety warnings

Warning! Additional safety warnings for jigsaws and reciprocating saws

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting 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.
- **Keep hands away from cutting area.** Never reach underneath the work piece any reason. Do not insert fingers or thumb into the vicinity of the reciprocating blade and blade clamp. Do not stabilize the saw by gripping the shoe.
- **Keep blades sharp.** Dull or damaged blades may cause the saw to swerve or stall under pressure. Always use the appropriate type of saw blade for the workpiece material and type of cut.
- **When cutting pipe or conduit, make sure that they are free from water, electrical wiring, etc.**
- **Do not touch the workpiece or the blade immediately after operating the tool.** They can become very hot.
- **Be aware of hidden hazards, before cutting into walls, floors or ceilings, check for the location of wiring and pipes.**
- **The blade will continue to move after releasing the switch.** Always switch the tool off and wait for the saw blade to come to a complete standstill before putting the tool down.

Warning! Contact with, or inhalation of dusts arising from cutting 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.

- 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 of others

- This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they
have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

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.)

Noise and vibration

The declared noise and 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 noise and vibration emission value may also be used in a preliminary assessment of exposure.
Warning! The noise and 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 noise and 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 pictograms along with the date code are shown on the tool:



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



Warning! To reduce the risk of injury, the user must wear ear protection.

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. On/off switch
2. Main handle
3. Motor vents
4. Power cable
5. Hex key holder
6. Dust port
7. Tilting sole plate
8. Blade roller
9. Tool free blade clamp
10. Wire guard

Assembly

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

Blade options

Your jigsaw is designed to permit the use of many different saw tooth configurations.
Caution! Use only T-Shank blades. DO NOT use U-Type blades.

Installing blades (Fig. A)

- Unplug your jigsaw from the power source.

Warning! Failure to unplug your jigsaw from the power source could result in accidental starting causing serious injury.

- Rotate clamp lever (9) ~90°.
- Push in the blade until no further movement.
- Release the clamp lever

Note: the clamp lever (9) should return fully to the starting position.. If this does not happen then push blade further into slot until lever returns to starting position.
Note:

- Ensure the blade is nested in the groove in the support roller (8).

Caution! Use only T-Shank blades.

To remove the jigsaw blade:

- Unplug your jigsaw.
- Rotate tool free blade clamp (9) ~90degrees. The blade may start to spring up but if not gently pull away from the clamp slot.

CAUTION - blades may be hot after use.

On/Off trigger switch (Fig. B)

To turn your jigsaw ON, depress the trigger switch (1). To turn the saw OFF, release the trigger switch.

Variable speed trigger (BES603 unit only) (Fig. C)

The BES603 only is fitted with a variable speed trigger.
To set the speed, turn the dial on the switch to the desired speed.
Depress the trigger to reach speed.

Vacuum port

During normal use without the vacuum connected, internal motor fan will continuously blow the sawdust away from the cutting mark. To connect the vacuum adaptor, push into the rear port of the jigsaw and turn until bayonet fit is secure.

Operation

Warning! Never use the tool when the saw sole plate is loose or removed.

General cutting

Warning! Keep hands and fingers away from the space between the motor housing and the blade clamp. Do not reach underneath workpiece while the saw is running.
Rest the front of the sole plate on the workpiece and align the cutting edge of the blade with the cutting line on your workpiece (Fig. D). Make sure the power cord is out of your way and not in the path the blade will follow. Start your saw and move it toward the workpiece. Apply enough downward pressure to keep the saw steady and only enough forward pressure to keep the blade cutting freely.
Warning! Do not force the saw. Forcing the saw may overheat the motor and break saw blades.

Bevel cutting

Bevel cutting angles may be adjusted from zero to 45° either left or right. To adjust the bevel angle:

- Loosen both sole plate pivot screws (12) until the sole plate (7) can be rotated (Fig. E).

Note: Use the 3 mm hex key supplied.

- Bevel angles are marked on a scale located on the side of the sole plate.
- Slide the sole plate back. Align the edge of the motor housing with the desired angle mark on the side of the base, then slide the sole plate forward to engage the notches into the motor housing pin as shown in figure F.

Note: Angle marks on the sides of the jigsaw base are for reference only.
Operator should use a protractor to verify angles.

- Once the desired bevel angle is obtained, lock the sole plate by tightening the sole plate pivot screws.
- Make a test cut in a scrap piece of material and measure the bevel angle. Adjust bevel angle if necessary.

Sawing laminates

When cutting laminates, splintering may occur which can damage the presentation surface.
The most common saw blades cut on the upward stroke, therefore if the shoe plate is sitting on the presentation surface either use a saw blade that cuts on the downward stroke or:

- Use a fine-tooth saw blade.
- Saw from the back surface of the workpiece.
- To minimise splintering, clamp a piece of scrap wood or hardboard to both sides of the workpiece and saw through this sandwich.

Sawing metal

Warning! Do not use a vacuum when cutting metal. Metal filings will be hot and may cause fire.
Be aware that sawing metal takes much more time than sawing wood.

- Use a saw blade suitable for sawing metal.
- When cutting thin sheet metal, clamp a piece of scrap wood to the back surface of the workpiece and cut through this sandwich.
- Spread a film of oil along the intended line of cut.

Plunge cutting

Warning! To avoid loss of control, broken blades or damage to the workpiece, always use extreme caution when making plunge cuts. It is not recommended to plunge cut any material other than wood. Wherever possible, drill a 8 mm or bigger pilot hole in the area to be cut out and start cutting with the blade in the pilot hole. This will avoid the need to plunge cut.
Note: Use only blades with 7 teeth per inch for plunge cutting.

- To plunge cut an inside hole, clearly mark the cutting line on the workpiece.
- Set the bevel angle at 0° then lock the sole plate.
- Tilt the saw forward so it rests on the front edge of the sole plate and in a position so the blade will NOT touch the workpiece when the switch is turned ON (Fig. G).

Note: Make sure the saw blade is inside the area to be cut.

- Start the saw and slowly lower the blade onto the workpiece while making sure the front of the sole plate remains in contact with the workpiece. Allow the blade to cut through the wood.
- Continue lowering the blade into the workpiece until the sole plate rests flat on the workpiece. Continue sawing toward the cutting line and complete the cut as required.

Metal cutting

Many types of metal can be cut with your jigsaw. When cutting any kind of material, be careful not to twist or bend the blades. Do not force the blade. If the blade chatters or vibrates excessively, use a finer tooth blade. If the blade heats excessively, reduce speed of cutting. If the blade teeth become clogged when cutting soft metals such as aluminum, use a coarser blade with fewer teeth per inch. Clamp all work firmly and saw as close as possible to the clamping point to eliminate any vibration of the work being cut.

When cutting conduit, pipe or angle iron, clamp work in a vise if possible and saw close to the vise. To cut thin sheet materials, “sandwich” the material between hardboard or plywood and clamp the layers to eliminate material vibration and tearing. By doing this, the material will be cut smoothly. Lay out your pattern or cutting lines on top of the “sandwich”.

Maintenance

Your BLACK+DECKER 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 on the tool, unplug the tool before cleaning it.

- 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

		BES602	BES603
Input voltage	V_{AC}	220 - 240V	220 - 240V
Power input	W	400	400
No-load speed	min^{-1}	3000	0 - 3000
Max depth of cut			
Wood	mm	65	65
Steel	mm	6	6
Aluminium	mm	10	10
Weight	kg	1.6	1.6

Level of sound pressure according to EN 62841:
Sound pressure (L_{pA}) 90 dB(A), uncertainty (K) 5 dB(A)
Sound power (L_{WA}) 98 dB(A), uncertainty (K) 5 dB(A)

Vibration total values (triax vector sum) according to EN 62841:
Cutting boards ($a_{h,B}$) 7,8 m/s^2, uncertainty (K) 1.5 m/s^2
Cutting sheet metal ($a_{h,M}$) 7,0 m/s^2, uncertainty (K) 1.5 m/s^2

EC declaration of conformity

MACHINERY DIRECTIVE

CE

BES602, BES603 Jigsaw
Black & Decker declares that these products described under “technical data” are in compliance with:
2006/42/EC, EN 62841-1:2015 + AC:2015 +A11:2022, EN 62841-2-11:2016 + A1:2020.

These products also comply with Directive 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.

Patrick Diepenbach

Patrick Diepenbach
General Manager, Benelux
Black and Decker,
Egide Walschaertsstraat 14-18
2800 Mechelen, Belgium
31/03/2023

Declaration of conformity The Supply of Machinery (Safety) Regulations 2008

UK CA

BES602, BES603 Jigsaw
Black & Decker declares that these products described under “technical data” are in compliance with:
The Supply of Machinery (Safety) Regulations, 2008, S.I. 2008/1597 (as amended),
EN 62841-1:2015 + AC:2015 +A11:2022, EN 62841-2-11:2016 + A1:2020"

These products conform to the following UK Regulations:
Electromagnetic Compatibility Regulations, 2016,
S.I.2016/1091 (as amended).

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, S.I. 2012/3032 (as amended).

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.



Ed Higgins
Director - Consumer Power Tools
BLACK+DECKER Slough England SL1 4DX
United Kingdom
31/03/2023

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 and the United Kingdom. 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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