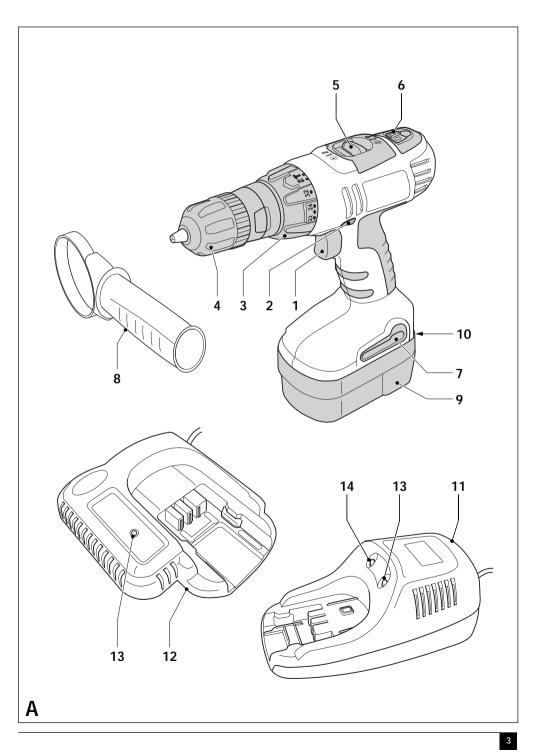
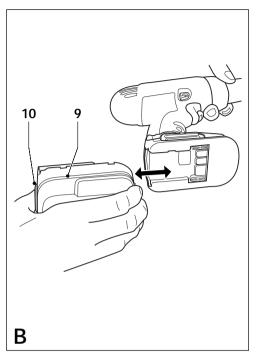
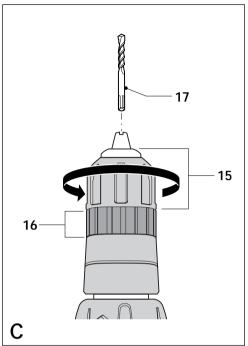


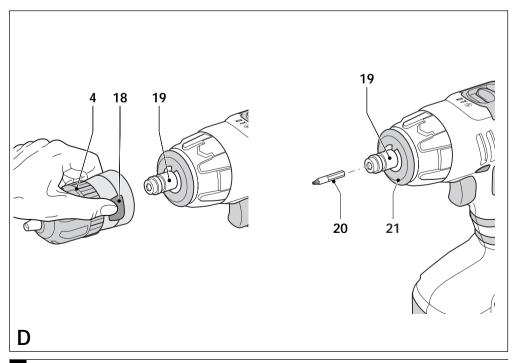
HP126F2K HP146F2K HP148F2K HP188F2K

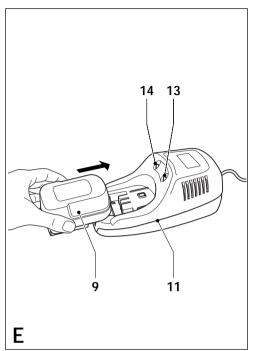


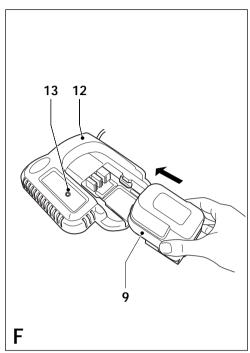


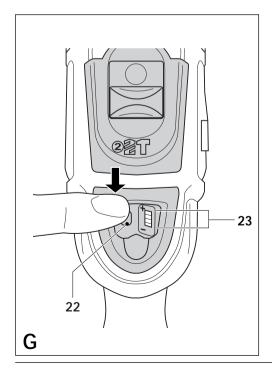


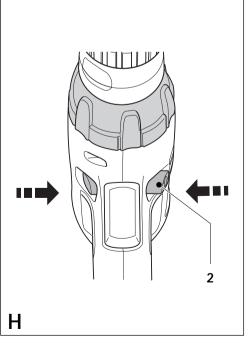


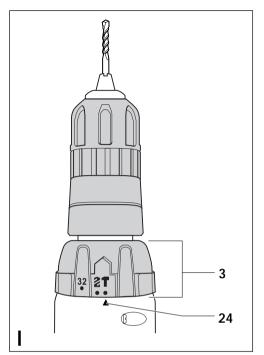


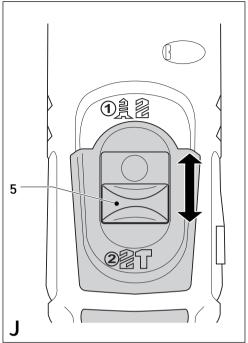












CORDLESS DRILL/SCREWDRIVER HP126F2K/HP146F2K/HP148F2K/HP188F2K

CONGRATULATIONS

You have chosen a Black & Decker tool. Our aim is to provide quality tools at an affordable price. We hope that you will enjoy using this tool for many years.

EC DECLARATION OF CONFORMITY



Black & Decker declares that these tools conform to:

> 98/37/EC. 89/336/EEC. 73/23/EEC. EN 50260, EN 55014, EN 60335, EN 61000

Level of sound pressure, measured according to EN 50260:

		HP126F2K	HP146F2K
L _{pA} (sound pressure)	dB(A)	74	69
L _{wa} (acoustic power)	dB(A)	87	82

		HP148F2K	HP188F2K
L _{pA} (sound pressure)	dB(A)	81	76
L _{wA} (acoustic power)	dB(A)	94	89



Always wear ear protection if the sound pressure exceeds 85 dB(A).

Hand/arm weighted vibration value according to FN 50260:

HP126F2K	HP146F2K	HP148F2K	HP188F2K
< 2.5 m/s ²	< 2.5 m/s ²	5.6 m/s ²	6.8 m/s ²



Colin Wills Director of Engineering BDCI, 4/F, 2 Dai Wang Street Tai Po Industrial Estate Tai Po NT, Hong Kong

INTENDED USE

Your Black & Decker drill/screwdriver HP126F2/ HP146F2 has been designed for screwdriving applications and for drilling in wood, metal and plastics.

Your Black & Decker drill/screwdriver HP148F2/ HP188F2 has been designed for screwdriving applications and for drilling in wood, metal, plastics and soft masonry.

This tool is intended for consumer use only. Your Black & Decker charger has been designed for charging Black & Decker batteries of the type supplied with this tool.

SAFFTY INSTRUCTIONS

Warning symbols

The following symbols are used in this manual:



Denotes risk of personal injury, loss of life or damage to the tool in case of nonobservance of the instructions in this manual



Denotes risk of electric shock.



Read the manual prior to operation.



Fire hazard

Know your tool



Warning! When using battery-powered tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, leaking batteries, personal injury and material damage.

ENGLISH

- Read all of this manual carefully before operating the tool.
- Before operating the tool, make sure that you know how to switch the tool off in an emergency.
- Retain this manual for future reference.

General

1. Keep work area clean

Cluttered areas and benches can cause accidents

2. Consider work area environment

Do not expose the tool to rain. Do not use the tool in damp or wet conditions. Keep the work area well lit. Do not use the tool where there is a risk of causing fire or explosion, e.g. in the presence of flammable liquids and gases.

3. Keep children away

Do not allow children, visitors or animals to come near the work area or to touch the tool.

4. Dress properly

Do not wear loose clothing or jewellery, as these can be caught in moving parts.

Preferably wear rubber gloves and non-slip footwear when working outdoors.

Wear protective hair covering to keep long hair out of the way.

5. Personal protection

Always use safety glasses. Use a face or dust mask whenever the operations may produce dust or flying particles. Wear ear protection whenever the sound level seems uncomfortable

6. Do not overreach

Keep proper footing and balance at all times.

7. Stay alert

Watch what you are doing. Use common sense. Do not operate the tool when you are tired.

8. Secure workpiece

Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.

9. Connect dust extraction equipment

If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.

10. Remove keys and adjusting wrenches

Always check that keys and adjusting wrenches are removed from the tool before operating the tool

11. Use appropriate tool

The intended use is described in this instruction manual. Do not force small tools or attachments to do the job of a heavy-duty tool. The tool will do the job better and safer at the rate for which it was intended. Do not force the tool.

Warning! 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.

12. Check for damaged parts

Before use, carefully check the tool for damage. Check for misalignment and seizure of moving parts, breakage of parts, damage to guards and switches and any other conditions that may affect its operation. Ensure that the tool will operate properly and perform its intended function. Do not use the tool if any part is damaged or defective. Do not use the tool if the switch does not turn it on and off. Have any damaged or defective parts repaired or replaced by an authorised repair agent. Never attempt any repairs yourself.

13. Remove the battery

Where the design permits, remove the battery when the tool is not in use, before changing any parts of the tool, accessories or attachments and before servicing.

14. Avoid unintentional starting

Do not carry the tool with a finger on the on/ off switch. Be sure that the tool is switched off when inserting the battery into the tool.

15. Do not abuse cord

Never carry the charger by its cord or pull it to disconnect from the socket. Keep the cord away from heat, oil and sharp edges.

16. Store idle tools

When not in use, tools, batteries and chargers should be stored in a dry, locked up or high place, out of reach of children.

17. Maintain tools with care

Keep cutting tools sharp and clean for better and safer performance. Follow the instructions for maintenance and changing accessories. Keep handles and switches dry, clean and free from oil and grease.

18. Repairs

This tool complies with relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts; otherwise this may result in considerable danger to the user.

Additional safety instructions for batteries and chargers

Batteries

- Never attempt to open for any reason.
- Do not expose to water.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 4 °C and 40 °C.
- Charge only using the charger provided with the tool (see technical data).
- Before charging, make sure that the battery is dry and clean.
- Use only the correct type of battery for the tool (see technical data).
- When disposing of batteries, follow the instructions given in the section "Protecting the environment".
- Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as follows:
 - Carefully wipe the liquid off using a cloth.
 Avoid skin contact.
 - In case of skin or eye contact, follow the instructions below.



The battery fluid, a 25-30% solution of potassium hydroxide, can be harmful. In case of skin contact, immediately rinse with water. Neutralise with a mild acid such as lemon juice or vinegar. In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.



Fire hazard! Avoid short-circuiting the contacts of a detached battery (e.g. when storing the battery in a toolbox).



Do not incinerate the battery.



Do not attempt to charge damaged batteries.

Chargers

- Use your Black & Decker charger only to charge batteries of the type supplied with your tool. Other batteries could burst, causing personal injury and damage.
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose to water.
- Do not open the charger.
- Do not probe the charger.



The charger is intended for indoor use only.

Additional safety instructions for drill/screwdrivers

- Before drilling into walls, floors or ceilings, check for the location of wiring and pipes.
- Avoid touching the tip of a drill bit just after drilling, as it may be hot.

ELECTRICAL SAFETY

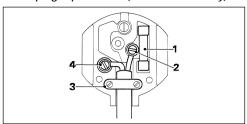
Your charger has been designed for a specific mains voltage. Always check that the mains voltage corresponds to the voltage on the rating plate.



Your charger is double insulated in accordance with EN 60335; therefore no earth wire is required.

ENGLISH

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



- Should your mains plug need replacing and you are competent to do this, proceed as instructed below. If you are in doubt, contact an authorised repair agent or a qualified electrician.
- Disconnect the plug from the supply and remove the fuse from the plug.
- Cut off the plug and dispose of it safely; a plug with bared copper conductors is dangerous if engaged in a live socket outlet.
- Only fit 13 Amperes BS1363A approved plugs fitted with a 5 A fuse (1).
- The cable wire colours, or a letter, will be marked at the connection points of most good quality plugs. Attach the wires to their respective points in the plug (see above).
 Brown is for Live (L) (2), blue is for Neutral (N) (4).
- Before replacing the top cover of the mains plug ensure that the cable restraint (3) is holding the outer sheath of the cable firmly and that the leads are correctly fixed at the terminal screws.
- If the plug has a fuse cover, make sure that the fuse cover is fitted. Do not use the plug if the fuse cover is missing or damaged.



Never use a light socket.

OVERVIEW (fig. A)

- 1. Variable speed switch
- 2. Forward/reverse slider
- 3. Mode selector / torque adjustment collar
- 4. Chuck
- 5. Two-gear selector
- 6. Battery charge indicator (HP148F2/HP188F2)
- 7. Bit holder
- 8. Side handle (HP188F2)

- 9. Battery
- 10. Battery release button
- 11. Charger (F2K/F2B models)
- 12. Charger (F2C models)
- 13. Charging indicator
- 14. End of charge indicator (F2K/F2B models)

ASSEMBLY

Fitting and removing the battery (fig. B)

- To fit the battery (9), line it up with the receptacle on the tool. Slide the battery into the receptacle and push until the battery snaps into place.
- To remove the battery, push the release button (10) while at the same time pulling the battery out of the receptacle.

Fitting and removing a drill bit or screwdriver bit (fig. A & C)

This tool is fitted with a keyless chuck to allow for an easy exchange of bits.

- Lock the tool by setting the forward/reverse slider (2) to the centre position (fig. A).
- Open the chuck by turning the front part (15) with one hand while holding the rear part (16) with the other (fig. C).
- Insert the bit shaft (17) into the chuck.
- Firmly tighten the chuck by turning the front part (15) with one hand while holding the rear part (16) with the other.

This tool is supplied with a double-ended screwdriver bit in the bit holder (7) (fig. A).

- To remove the screwdriver bit from the bit holder, lift the bit from the recess.
- To store the screwdriver bit, firmly push it into the holder.

HP126F2/HP146F2 - Removing and fitting the chuck (fig. D)

The chuck on these models can be easily removed and refitted. When your project entails both drilling and screwdriving, fit a screwriver bit in the spindle and a drill bit in the chuck: you will then only need to remove the chuck for screwdriving and refit it for drilling. The screwdriver bit can be left in the spindle while drilling. You can also fit drill bits with a hexagonal shaft in this way.

- To remove the chuck (4), keep the release tabs (18) depressed and pull the chuck off the spindle (19).
- Install a screwdriver bit (20) by pushing it into the spindle (19) as shown. To remove the screwdriver bit, pull the ring (21) back and pull the screwdriver bit out of the spindle.
- To refit the chuck, push it onto the spindle until it is firmly locked into place.



Always make sure that the chuck is securely fitted.

HP188F2 - Fitting the side handle (fig. A)

- Loosen the side handle (8) by turning it counterclockwise.
- Slide the side handle over the chuck and onto the housing.
- Tighten the side handle by turning it clockwise.





Let the tool work at its own pace.

Do not overload

Charging the battery

The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before.

A new battery, or a battery that has not been used for an extended period of time, achieves full performance only after approx. 5 charging and discharging cycles. The battery may become warm while charging; this is normal and does not indicate a problem.



Do not charge the battery at ambient temperatures below 4 °C or above 40 °C. Recommended charging temperature: approx. 24 °C.

F2K/F2B models - 1 hour charger (fig. E)
After normal use, a charging time of 60 minutes
will provide sufficient power for most applications.
However, further charging for up to 90 minutes
could significantly increase the use time,
depending on the battery and charging
conditions.

- To charge the battery (9), remove it from the tool and insert it into the charger (11).
 The battery will only fit into the charger in one way. Do not force. Be sure that the battery is fully seated in the charger.
- · Plug in the charger.
- Check if the red charging indicator (13) lights up. If the green end of charge indicator (14) lights up now instead, the battery is too hot and cannot be charged. If this happens, remove the battery from the charger, let the battery cool down for approx. 1 hour and re-insert it.

After approx. 1 hour of charging, the red charging indicator (13) will stop lighting and the green end of charge indicator (14) will light up. The battery is now fully charged.

• Remove the battery from the charger.

F2C models - 15 minute charger (fig. F)
After normal use, a charging time of 15 minutes
will provide sufficient power for most applications.
However, further charging for up to 30 minutes
could significantly increase the use time,
depending on the battery and charging
conditions.

- To charge the battery (9), remove it from the tool and insert it into the charger (12).
 The battery will only fit into the charger in one way. Do not force. Be sure that the battery is fully seated in the charger.
- Plug in the charger.

While charging, the red charging indicator (13) will blink slowly (once per second). If the indicator blinks short, then long, the battery is too hot. Charging will start once the battery has cooled down. If the indicator blinks fast (twice per second), the battery is defective.

After approx. 15 minutes of charging, the red charging indicator (13) will be lit permanently. The battery is now fully charged.

Remove the battery from the charger.

HP148F2/HP188F2 - Checking the battery condition (fig. G)

This tool is fitted with a battery charge indicator, which allows you to check the condition of the battery.

- Press and hold down the button (22).
- Check to see how many of the lights (23) are on:

	Battery charge
1 light	low
2 lights	medium
3 lights	high

Selecting the direction of rotation (fig. H)

For drilling and for tightening screws, use forward (clockwise) rotation. For loosening screws or removing a jammed drill bit, use reverse (counterclockwise) rotation.

- To select forward rotation, push the forward/ reverse slider (2) to the left.
- To select reverse rotation, push the forward/ reverse slider to the right.
- To lock the tool, set the forward/reverse slider into the centre position.

Selecting the operating mode or torque (fig. I)

This tool is fitted with a collar to select the operating mode and to set the torque for tightening screws. Large screws and hard workpiece materials require a higher torque setting than small screws and soft workpiece materials. The collar has a wide range of settings to suit your application.

- For drilling in wood, metal and plastics, set the collar (3) to the drilling position by aligning the symbol 2 with the marking (24).
- HP148F2/HP188F2:
 - For drilling in masonry, set the collar (3) to the hammer drilling position by aligning the symbol **T** with the marking (24).
- For screwdriving, set the collar to the desired setting. If you do not yet know the appropriate setting, proceed as follows:
 - Set the collar (3) to the lowest torque setting.
 - Tighten the first screw.
 - If the clutch ratchets before the desired result is achieved, increase the collar setting and continue tightening the screw.
 Repeat until you reach the correct setting.

Use this setting for the remaining screws.

Two-gear selector (fig. J)

- For drilling in steel and for screwdriving applications, slide the two-gear selector (5) towards the front of the tool (1st gear).
- For drilling in materials other than steel, slide the two-gear selector (5) towards the rear of the tool (2nd gear).

Drilling/screwdriving (fig. A)

- Select forward or reverse rotation using the forward/reverse slider (2).
- To switch the tool on, press the switch (1).
 The tool speed depends on how far you press the switch.
- To switch the tool off, release the switch.

Hints for optimum use

Drillina

- Always apply a light pressure in a straight line with the drill bit.
- Just before the drill tip breaks through the other side of the workpiece, decrease pressure on the tool.
- Use a block of wood to back up workpieces that may splinter.
- Use spade bits when drilling large diameter holes in wood
- Use HSS drill bits when drilling in metal.
- Use masonry bits when drilling in soft masonry.
- Use a lubricant when drilling metals other than cast iron and brass
- Make an indentation using a centre punch at the centre of the hole to be drilled in order to improve accuracy.

Screwdrivina

- Always use the correct type and size of screwdriver bit.
- If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- Always hold the tool and screwdriver bit in a straight line with the screw.

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.

Your charger does not require any maintenance apart from regular cleaning.



Before performing any maintenance on the tool, remove the battery from the tool.

- Unplug the charger before cleaning it.
- Regularly clean the ventilation slots in your tool and charger 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.
- Regularly open the chuck and tap it to remove any dust from the interior.

PROTECTING THE ENVIRONMENT

Tools



Should you find one day that your tool needs replacement, or if it is of no further use to you, think of the protection of the environment. Black & Decker repair agents will accept old Black & Decker tools and ensure that they are disposed of in an environmentally safe way.

Batteries



Black & Decker batteries can be recharged many times. At the end of their useful life, discard batteries with due care for our environment:

- Run the battery down completely, then remove it from the tool.
- NiCd and NiMH batteries are recyclable.
 Take them to your service agent or a local recycling station. Collected batteries will be recycled or disposed of properly.

Technical data

		HP126F2K	HP146F2K	HP148F2K	HP188F2K
Voltage	V _{DC}	12	14.4	14.4	18
No-load speed	min ⁻¹	0-400/0-1,200	0-300/0-1,100	0-300/0-1,100	0-500/0-1,600
Max. torque	Nm	20.2	22.1	22.1	29.4
Chuck capacity	mm	10	10	10	10
Max. drilling capacity in steel/wood/masonry	mm	10/25	10/30	10/30/12	10/35/15
Weight (without battery)	kg	1.3	1.3	1.3	1.4

Battery		A12	A12F	A14	A14F	A18	A18F
Voltage	V_{DC}	12	12	14.4	14.4	18	18
Capacity	Ah	1.2	1.5	1.2	1.5	1.2	1.5
Weight	kg	0.52	0.6	0.65	0.76	0.76	0.9

Charger		F2C models	F2K/F2B models
Input voltage	V _{AC}	230	230
Approx. charging time	min	15	60

GUARANTEE (UK, SOUTH AFRICA, AUSTRALIA AND NEW ZEALAND ONLY)

Should your Black & Decker product become defective due to faulty materials or workmanship, within 24 months from the date of purchase, we guarantee to either replace all defective parts or -at our discretion- to replace the unit free of charge, provided that:

- The product is returned to us or one of our authorised repair agents with proof of purchase.
- The product has not been used for trade, professional or hire purposes.
- The product has not been subjected to misuse or neglect.
- The product has not sustained any damage through foreign objects, substances or accidents.
- Repairs have not been attempted by anyone other than our service staff or authorised repair agents.

This guarantee is offered as an extra benefit and does not affect your statutory rights.

AFTER SALES SERVICE (UK, SOUTH AFRICA, AUSTRALIA AND NEW ZEALAND ONLY)

Black & Decker offers a nationwide network of authorised repair agents. The use of other than genuine Black & Decker parts and accessories may reduce the performance of the tool and cause personal injury and material damage. The terms and conditions of the warranty could also be rendered void.

OUR AFTER SALES SERVICE POLICY (UK, AUSTRALIA AND NEW ZEALAND ONLY)

Full details on our after-sales service are available on the Internet at www.2helpU.com.

Alternatively, contact our Service and Information Centre at the address towards the back of this manual.

It is our aim that all Black & Decker customers should be totally satisfied with their Black & Decker product and our after sales service. If any help or advice is needed, please contact your local Black & Decker repair agent.

If your product needs repair, please take or send it to an authorised repair agent, providing proof of purchase if claiming a guarantee repair.

OTHER DIY TOOLS

Black & Decker has a full range of tools that make DIY jobs easy. If you would like further information on the following products, please contact our Service and Information Centre (see the address page towards the end of this manual) or your local Black & Decker retailer

Drills

Cordless screwdrivers

Cordless drills/screwdrivers

Sanders

Jigsaws

Circular saws

Mitre saws

Angle grinders

Planers

Routers

Corded and cordless multi-purpose tools

Paint strippers

Workbenches

We also have outdoor tools, household products and a wide range of accessories for the above tools.

Not all products are available in all countries.

Australia	DeWALT Industrial Power Tool Company 7 Clarice Road Box Hill, Victoria 3128	Tel. 03 9895 9200 Fax 03 9899 7465
New Zealand	Black & Decker 81 Hugo Johnson Drive Penrose, Auckland, New Zealand	Tel. 09 579 7600 Fax 09 579 8200
South Africa	Black & Decker South Africa (Pty) Ltd Physical address: 146 Lechwe Street Corporate park Randjiesfontein, Midrand Postal address: Postnet Suite 107, Private Bag X65 Halfway House 1685	Tel. (011) 653-1400 Fax (011) 653-1499
United Kingdom	Black & Decker 210 Bath Road Slough, Berkshire SL1 3YD	Tel. 01753 511234 Fax 01753 551155 Helpline 01753 574277

Dealer address	Date of purchase
Name:	Was this tool bought as a replacement?
Address:	Yes No
Town:	
Postal code:	Dealer address:
Was this tool a gift?	
Yes No	Data protection act: Tick the box if you prefer not to receive further information.

Was this tool your first purchase?

Yes

GUARANTEE CARD

country. If you live in Australia or New Zealand, please register by using the alternative guarantee card supplied. Please complete this section immediately after the purchase of your tool and send it to Black & Decker in your