



LI-ION 18V
CORDLESS DRILL



USER GUIDE

MODEL NUMBER BT-CD 18/1 Li

AFTER SALES SUPPORT

TEL: 1300 922 271

EMAIL: service.australia@einhell.com

 ***N26704***

Cordless Drill

What your 3 year warranty means

Great care has gone into the manufacture of this product and it should therefore provide you with years of good service when used properly. In the event of product failure within its intended use over the course of the first 3 years after the date of purchase, we will remedy the problem as quickly as possible once it has been brought to our attention. In the unlikely event of such an occurrence, or if you require any information about the product, please contact us via our after sales support services, details of which can be found in this manual and on the product itself.

Welcome Section

Congratulations on choosing to buy a TAURUS TITANIUM® product.
All products brought to you by TAURUS TITANIUM® are manufactured to the highest standards of performance and safety, and, as part of our philosophy of customer service and satisfaction, are backed by our comprehensive 3 Year Warranty.

We hope you will enjoy using your purchase for many years to come.

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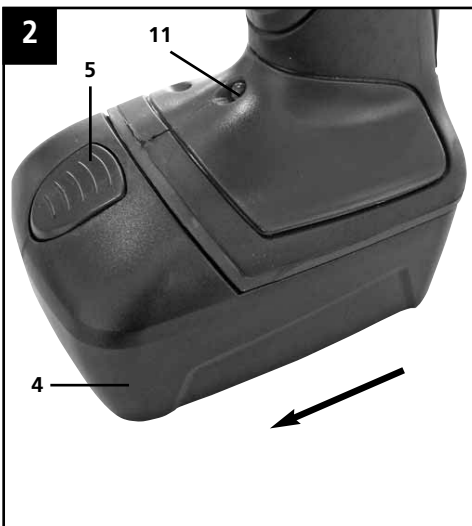


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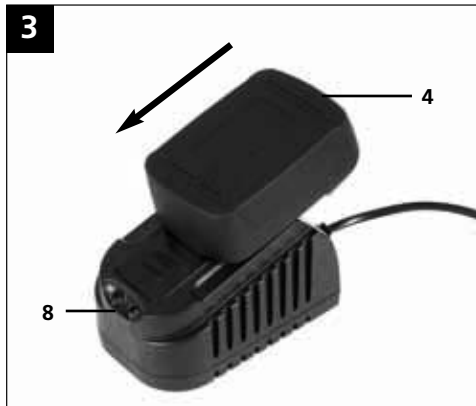
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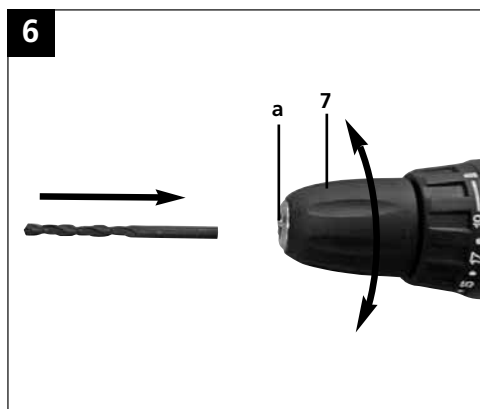
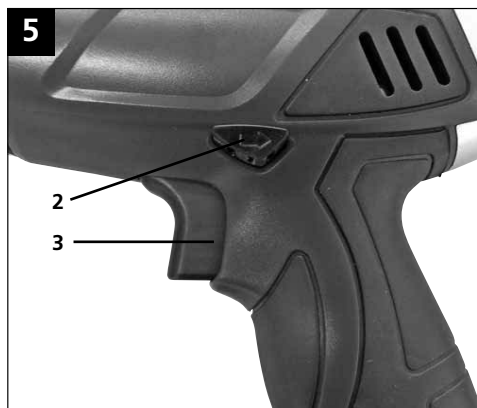
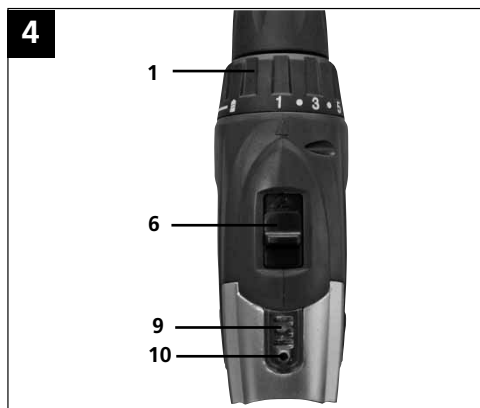
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**Caution**

Read the operating instructions to reduce the risk of injury.

**Wear ear-muffs.**

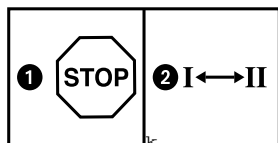
The impact of noise can cause damage to hearing.

**Wear safety goggles.**

Sparks generated during working or splinters, chips and dust emitted by the device can cause loss of sight.

**Wear a breathing mask.**

Dust which is injurious to health can be generated when working on wood and other materials. Never use the device to work on any materials containing asbestos!



Change the gear only when the drill is at a standstill. If you fail to observe this point, the gearing may be damaged.



1. General Safety Rules

WARNING! Read all instructions Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. 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.

SAVE THESE INSTRUCTIONS

CAUTION

Read all safety regulations and instructions.

Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

Keep all safety regulations and instructions in a safe place for future use.

1. Work area

- a. **Keep work area clean and well lit.** Cluttered and 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 tool. 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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in 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 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 these devices can reduce dust-related hazards.

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. 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**

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and in the manner intended for the particular type of power tool, 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.

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.

6. Recommendation

We recommend that the tool always be supplied via residual current device with a rated residual current of 30 mA or less.

2. Additional Safety Rules

Hold the equipment by the insulated handles when carrying out work during which the screw or the plug-in tool could strike concealed power cables. Contact with a live cable may also make the metal parts of the equipment live and cause an electric shock.

We pay a great deal of attention to the design of every battery pack to ensure that we supply you with batteries which feature maximum power density, durability and safety. The battery cells have a wide range of safety devices. Each individual cell is initially formatted and its electrical characteristic curves are recorded. This data is then used exclusively to be able to assemble the best possible battery packs.

Despite all the safety precautions, caution must always be exercised when handling batteries. The following points must be obeyed at all times to ensure safe use.

Safe use can only be guaranteed if undamaged cells are used. Incorrect handling can cause cell damage.

Important! Analyses confirm that incorrect use and poor care are the main causes of the damage caused by high performance batteries.

Information about the battery

1. The battery pack supplied with your cordless tool is not charged. The battery pack has to be charged before you use the tool for the first time.
2. For optimum battery performance avoid low discharge cycles. Charge the battery pack frequently.
3. Store the battery pack in a cool place, ideally at 15°C and charged to at least 40%.
4. Lithium-ion batteries are subject to a natural ageing process. The battery pack must be

replaced at the latest when its capacity falls to just 80% of its capacity when new. Weakened cells in an aged battery pack are no longer capable of meeting the high power requirements and therefore pose a safety risk.

5. Do not throw battery packs into an open fire. There is a risk of explosion!
6. Do not ignite the battery pack or expose it to fire.
7. Do not exhaustively discharge batteries. Exhaustive discharge will damage the battery cells. The most common cause of exhaustive discharge is lengthy storage or non-use of partly discharged batteries. Stop working as soon as the performance of the battery falls noticeably or the electronic protection system triggers. Place the battery pack in storage only after it has been fully charged.
8. Protect batteries and the tool from overloads. Overloads will quickly result in overheating and cell damage inside the battery housing without this overheating actually being apparent externally.
9. Avoid damage and shocks. Replace batteries which have been dropped from a height of more than one meter or which have been exposed to violent shocks without delay, even if the housing of the battery pack appears to be undamaged. The battery cells inside the battery may have suffered serious damage. In this respect, please also read the waste disposal information.
10. If the battery pack suffers overloading and overheating, the integrated protective cut-off will switch off the equipment for safety reasons. **Important!** Do not press the ON/OFF switch any more if the protective cut-off has actuated. This may damage the battery pack.
11. Use only original battery packs. The use of other batteries may result in injuries, explosion and a fire risk.

Information on chargers and the charging process

1. Please check the data marked on the rating plate of the battery charger. Be sure to connect the battery charger to a power supply with the voltage marked on the rating plate. Never connect it to a different mains voltage.
2. Protect the battery charger and its cable from damage and sharp edges. Have damaged cables repaired without delay by a qualified electrician.
3. Keep the battery charger, batteries and the cordless tool out of children's reach.

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4. Do not use damaged battery chargers.
5. Do not use the supplied battery charger to charge other cordless tools.
6. In heavy use the battery pack will become warm. Allow the battery pack to cool to room temperature before commencing with the charging.
7. Do not over-charge batteries. Do not exceed the maximum charging times. These charging times only apply to discharged batteries. Frequent insertion of a charged or partly charged battery pack will result in overcharging and cell damage. Do not leave batteries in the charger for days on end.
8. Never use or charge batteries if you suspect that the last time they were charged was more than 12 months previously. There is a high probability that the battery pack has already suffered dangerous damage (exhaustive discharge).
9. Charging batteries at a temperature below 10°C will cause chemical damage to the cell and may cause a fire.
10. Do not use batteries which have heated during the charging process, as the battery cells may have suffered dangerous damage.
11. Do not use batteries which have suffered curvature or deformation during the charging process or which show other non-typical symptoms (gassing, hissing, cracking,...)
12. Never fully discharge the battery pack (recommended depth of discharge max. 80%) A complete discharge of the battery pack will lead to premature ageing of the battery cells.
13. Never charge the batteries unsupervised.
7. Storage of batteries, battery chargers and cordless tools. Store the charger and your cordless tool only in dry places with an ambient temperature of 10-40°C. Store your lithium-ion battery pack in a cool, dry place at a temperature of 10-20°C. Protect them from humidity and direct sunlight. Only place fully charged batteries in storage (charged to at least 40%).
8. Prevent the lithium-ion battery pack from freezing. Battery packs which were stored below 0°C for more than 60 minutes must be disposed of.
9. When handling batteries be aware of electrostatic discharge: Electrostatic discharges cause damage of the electronic protection system and the battery cells. Avoid electrostatic charging and never touch the battery poles.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or accidents which arise due to non-observance of these instructions and the safety information.

3. Layout (Fig. 1)

1. Torque selector
2. Forward / Reverse switch
3. ON/OFF switch
4. Battery pack
5. Pushlock button
6. Selector switch for 1st gear or 2nd gear
7. Keyless chuck
8. Battery charger
9. Battery capacity indicator
10. Switch for battery capacity indicator
11. LED light

4. Proper use

The tool is designed for tightening and undoing screws, as well as for drilling in wood, metal and plastic. The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

Protection from environmental influences

1. Wear suitable work clothes. Wear safety goggles.
2. Protect your cordless tool and the battery charger from moisture and rain. Moisture and rain can cause dangerous cell damage.
3. Do not use the cordless tool or the battery charger near vapors and inflammable liquids.
4. Use the battery charger and cordless tools only in dry conditions and an ambient temperature of 10-40°C.
5. Do not keep the battery charger in places where the temperature is likely to reach over 40°C. In particular, do not leave the battery charger in a car that is parked in the sun.
6. Protect batteries from overheating. Overloads, over-charging and exposure to direct sunlight will result in overheating and cell damage. Never charge or work with batteries which have been overheated - replace them immediately if possible.



5. Technical data

Voltage supply	18 V d.c.
Idling speed	0-350/0-1200 rpm
Torque settings	19 + 1
Forward and reverse rotation	yes
Chuck capacity	max. 10 mm
Battery charging voltage	14.4–18V d.c.
Battery charging current	1500 mA
Mains voltage for charger	230–240 V ~ 50–60 Hz
Weight	1.7 kg
Max. screw diameter	6 mm

Sound and vibration

Sound and vibration values were measured in accordance with EN 60745.

L_{pA} sound pressure level	72 dB(A)
K_{pA} uncertainty	3 dB
L_{WA} sound power level	83 dB(A)
K_{WA} uncertainty	3 dB

Wear ear-muffs.

The impact of noise can cause damage to hearing. Total vibration values (vector sum of three directions) determined in accordance with EN 60745.

Total vibration values (vector sum of three directions) determined in accordance with EN 60745.

Drilling in metal.

Vibration emission value $a_h \leq 2.5 \text{ m/s}^2$
K uncertainty = 1.5 m/s^2

Screwing without hammer action

Vibration emission value $a_h \leq 2.5 \text{ m/s}^2$
K uncertainty = 1.5 m/s^2

Additional information for power tools.

Warning!

The specified vibration value was established in accordance with a standardised testing method. It may change according to how the electric equipment is used and may exceed the specified value in exceptional circumstances.

The specified vibration value can be used to compare the equipment with other electric power tools.

The specified vibration value can be used for initial assessment of a harmful effect.

Keep the noise emissions and vibrations to a minimum.

- Only use appliances which are in perfect working order.
- Clean the tool regularly.
- Adapt your working style to suit the tool.
- Do not overload the tool.
- Switch the tool off when it is not in use.
- Wear protective safety equipment.

Residual risks.

Even if you use this power tool in accordance with instructions, certain residual risks cannot be ruled out. The following hazards may arise in connection with the equipment's construction and layout:

1. Lung damage if no suitable protective dust mask is used.
2. Damage to hearing if no suitable ear protection is used.
3. Health damage caused by hand-arm vibrations if the equipment is used over a prolonged period or is not properly guided and maintained.

6. Before starting the equipment

Be sure to read the following information before you use your tool for the first time:

1. Charge the battery pack with the charger supplied. An empty battery pack requires a charging period of approximately 1 hour.
2. Only ever use sharp drill bits and screwdriver bits which are suitable for the purpose and in faultless condition.
3. Always check for concealed electric cables and gas and water pipes when drilling and screwing in walls.

7. Operation

7.1 Charging the LI battery pack (Fig. 2/3)

The battery is protected from exhaustive discharge. An integrated protective circuit automatically switches off the equipment when the battery is flat. In this case the chuck will cease to turn.

Warning! Do not press the ON/OFF switch any more if the protective circuit has actuated. This may damage the battery.

1. Remove the battery pack (4) from the handle, pressing the pushlock button (5) downwards to do so.
2. Check that your mains voltage is the same as that



marked on the rating plate of the battery charger. (230V - 240V). Plug the mains plug of the charger (8) into the mains socket outlet.

Indicator status		Explanations and actions
Red	Green	
LED	LED	
OFF	Flashing	Ready for use The charger is connected to the mains and is ready for use; there is no battery pack in the charger
ON	OFF	Charging The charger is charging the battery pack in quick charge mode.
OFF	ON	The battery pack is fully charged (charging completed) Action: Take the battery pack out of the charger. Disconnect the charger from the mains supply.
Flashing	OFF	Adapted charging The charger is in gentle charging mode. For safety reasons the charging is performed less quickly and takes more than 1 hour. The reasons can be: <ul style="list-style-type: none"> • The battery pack has not been used for a very long time or an already flat battery was further discharged (exhaustive discharge) • The battery pack temperature is 10°C and 45°C). Action: Wait for the charging to be completed; you can still continue to charge the battery pack.
Flashing	Flashing	Fault Charging is no longer possible. The battery pack is defective. Action: Never charge a defective battery pack. Take the battery pack out of the charger.
ON	ON	Temperature fault The battery pack is too hot (e.g. due to direct sunshine) or too cold (below 0°C). Action: Remove the battery pack and keep it at room temperature (approx. 20°C) for one day.

Important!

At temperatures below 0°C the battery will not be charged.

If the battery pack fails to become charged, please check

- whether there is voltage at the socket-outlet
- whether there is good contact at the charging contacts of the battery charger (8)

If the battery still fails to become charged, please call our After Sales Support number 1300 922 271.

To ensure that the Li battery pack provides long service you should take care to recharge it promptly. You must recharge the battery pack when you notice that the power of the tool drops.

7.2 Torque setting (Fig. 4)

The tool is fitted with a mechanical torque selector.

The torque for a specific size of screw is selected with the torque selector (1). The correct torque depends on several factors:

- On the type and hardness of material in question.
- On the type and length screws used.
- On the requirements needing to be met by the screwed joint.

The clutch disengages the chuck by preventing rotation, therefore indicates when the set torque is reached.

Important! The tool must be at a standstill when you set the torque with the setting ring.

7.3 Drilling

For drilling purposes, move the torque selector (Fig. 4/Item 1) to the last step "Drill". In this setting the slip clutch is inactive. The maximum torque is available in drilling mode.

7.4 Forward/Reverse switch (Fig. 5)

With the forward / reverse switch (2) you can select the direction of rotation of the tool. You can choose between clockwise and counter clockwise rotation. To avoid causing damage to the gearing it is advisable to change the direction of rotation only when the tool is at a standstill. The On/Off switch (3) is blocked when the forward / reverse switch (2) is in centre position. This protects the tool against being switched on accidentally.

7.5 On/Off switch (Fig. 5)

Infinitely variable speed control is possible with the On/Off switch (3). The further you press the switch, the higher the speed.

7.6 Battery capacity indicator (Fig. 4)

Press the switch for the battery capacity indicator (10). The battery capacity indicator (9) indicates the charge state of the battery on 3 colored LEDs.

All LEDs illuminate:

The battery is fully charged.

The yellow and red LED illuminate:

The battery has an adequate remaining charge.

Red LED illuminates:

The battery is empty, recharge the battery.



7.7 Changing the accessory (Fig. 6)

Important! Set the forward / reverse switch (Fig. 5/Item 2) to its centre position whenever you carry out any work (for example changing the accessory, maintenance work, etc.) on the tool.

- The tool is fitted with a chuck (7) with an automatic spindle stop.
- Open the chuck (7) by rotating it counter-clockwise. The chuck opening (a) must be large enough to hold the tool (drill bit or screwdriver bit).
- Select the suitable accessory. Place the accessory into the chuck opening (a).
- Tighten the chuck (7) by rotating it clockwise and then check that the tool is secure.

7.8 Screwdriving

We recommend using self-centering screws (e.g. Torx screws, recessed head screws) designed for reliable working. Be sure to use a bit that matches the screw in shape and size. Set the torque as per Section 7.2 of the user guide.

7.9 Selecting 1st gear or 2nd gear (Fig. 4)

By adjusting the selector switch (6), you can work with a faster or slower turning speed. Change the gear only when the drill is at a standstill. If you fail to observe this point, the gearing may be damaged.

7.10 LED lamp (Fig. 2)

The LED lamp (11) can be used in poor lighting conditions to illuminate the area where you want to drill or screw. The LED lamp (11) will be lit automatically as soon as you press the ON/OFF switch (Fig. 1/Item 3).

8. Cleaning, maintenance and ordering of spare parts

Always pull out the mains power plug before starting any cleaning work.

8.1 Cleaning

Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible. Wipe the tool with a clean cloth or blow it with compressed air at low pressure.

We recommend that you clean the tool immediately each time you have finished using it. Clean the tool regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the tool. Ensure that no water can seep into the tool.

8.2 Maintenance

There are no parts inside the equipment which require additional maintenance.

8.3 Ordering Spare Parts

Contact our After Sales Support on 1300 922 271 and quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

9. Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste.

10. Disposal of batteries

Batteries contain substances that can be harmful to the environment. Never place batteries in your household refuse, in fire or in water. Batteries should be collected, recycled or disposed of in an environmentally friendly way. Seek advice on correct disposal from local waste authorities or your local council.



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