

***10.8v Li-ion
Ion Drill/Driver***

User Manual

***DR1
Ion***

CEL™

THANK YOU

Thank you for investing in a CEL product. The 10.8v Li-Ion Cordless Drill/Driver has been engineered and made to demanding high quality standards; ease of operation and safety have taken a major role in development.

Proper care of your product will give you years of trouble-free use.

Normal wear and tear, including accessory wear, is not covered under guarantee. The product is guaranteed for **domestic use** against manufacturing faults for a period of 12 months (for additional guarantee period (if any) please refer to the store or agent from which you purchased the product or contact the nearest authorized dealer). This product is not guaranteed for HIRE purposes.

If you have any questions, please contact us at:

sales@cel-global.com

It is possible to download updated user manuals, view demonstration videos and find information about new products at: **www.cel-global.com**

Warning: Users must read and understand the user manual before using the product to reduce the risk of injury. Failure to follow all instructions may result in electric shock, fire and/or serious personal injury. The product must be used only for its prescribed purpose. Any use other than those mentioned in this manual will be considered a case of misuse. The manufacturer shall NOT be liable for any damage or injury resulting from such cases of misuse, use of force, partially or completely dismantled appliances.



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CARE

Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



General
Hazard



Read
Instructions



Keep Dry



Protect
Eyes, Ears,
Lungs



Keep
Bystanders
Away



Flying
Debris



Wear
Appropriate
Clothing

General Power Tool Safety



WARNING Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The terms "tool" and "machine" in the warnings refers to battery-operated (cordless) power tool.

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.

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 grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c) Don't 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 to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

Personal safety

- a) Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious injury or damage.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions and will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) Remove adjusting key or wrench before turning the tool on. A wrench or a key left attached to a rotating part of the 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 appropriately. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.

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 tool's 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.

Battery use and care

- a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

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.

Machine-specific Safety Warnings

DO NOT USE in a wet location, or in a gaseous explosive atmosphere.

When using all drills, **WEAR SAFETY GLASSES** and **DO NOT WEAR** loose clothing. Loose clothing could get wrapped up in your drill and may cause serious injury.

DO NOT CARRY the tool with your finger on the trigger.

USE A CLAMP OR VISE to hold your work. It's safer and will free both hands for operating.

PAY CLOSE ATTENTION when drilling into a wall, floor or wherever there could be a "live" electrical wire.

KEEP BYSTANDERS AND CHILDREN AWAY from the work area.

DO NOT TOUCH the bit after drilling. It may be hot and can cause severe burns.

NEVER charge cordless drills in an environment where the temperature is outside 10°C and 24°C (50°F) and (75°F). **USE ONLY** the charging system supplied to recharge the batteries. Using a charger other than the one that came with your system may cause serious damage to the charger or the battery.

INSPECT the tool and charging system **PERIODICALLY** for loose or broken components. **REPAIR** any defects before further use.

Do not reach under the workpiece. Contact with cutting tools can lead to injuries.

Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.

Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more securely than by hand.

Keep your workplace clean. Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.

Do not open the battery. Danger of short-circuiting.

Protect the battery against heat, e.g., ~ also against continuous sun irradiation and fire. There is danger of explosion.

In case of damage and improper use of the battery, vapours may be emitted. Provide for fresh air and seek medical help in case of complaints.

The vapours can irritate the respiratory system.

When the battery is defective, liquid can escape and come into contact with adjacent components. Check any parts concerned. Clean such parts or replace them, if required.

Use the battery only in conjunction with your CEL power tool. This measure alone protects the battery against dangerous overload.

Wear protective gloves when changing application tools/accessories. Application tools/accessories become hot after prolonged usage.

Always wear equipment to protect vision, hearing and lungs and suitable clothing and footwear.
Long periods of use can be harmful, take regular breaks.

Please note that this product is sold in several configurations. The content of your package may vary from this description.



REPLACEMENT CODE:

MT1-BP01

DR1



MT1-CG01

Due to modern mass production techniques, it is unlikely that your power tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

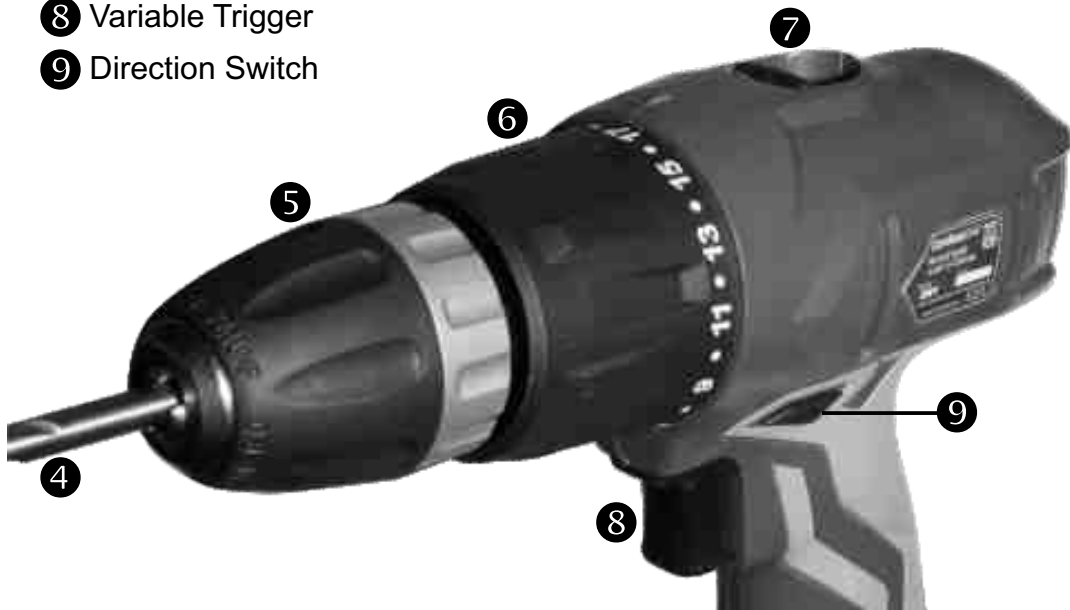
- ① Drill/Driver
- ② Li-Ion Battery (optional)
- ③ Charger Unit (optional)
- ④ Fitted Bit (not included)
- ⑤ Chuck Collar
- ⑥ Torque Selection Collar
- ⑦ Speed Switch
- ⑧ Variable Trigger
- ⑨ Direction Switch

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Intended Use

The machine is intended drilling and driving -using suitable accessories- wooden materials, plastic, gypsum, non-ferrous metals and fastening elements.



Note: The battery is supplied partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before first use.

The Li-ion battery is protected against deep discharging by the "Electronic Cell Protection (ECP)". When the battery is empty, the machine is switched off by means of a protective circuit.

If the machine should automatically switch off. Allow the battery to cool then charge it before restarting the machine. Otherwise the battery can become damaged.



WARNING, Do not throw used batteries into fire or water, It could cause an explosion !

WARNING, Do not use an extension cord.

WARNING, Charge indoors only.

Please dispose of batteries at your local battery disposal depot.

Inserting the Battery

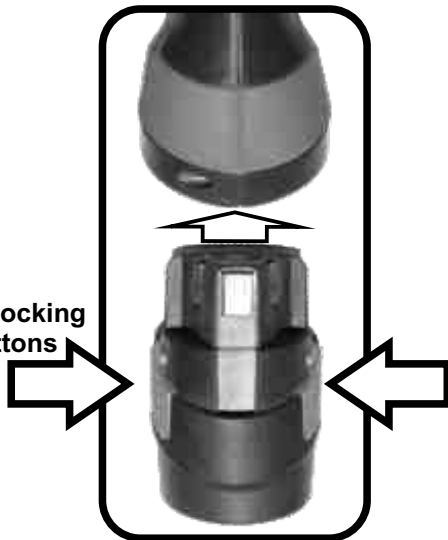
Insert the charged battery into the handle until it can be felt to engage and sits flush against the handle.

Removing the Battery

To remove the battery, press the two unlocking buttons and slide the battery out of the machine. Do not exert any force.

WARNING Use only the battery charger supplied with this tool or an identical replacement. Use only original Cel lithium ion batteries with the voltage listed on the nameplate of your power tool. Other batteries or chargers can cause damage or injury.

**Unlocking
Buttons**



Only use supplied battery and charger or identical replacements.



CHARGER LIGHTS INDICATOR

POWER ON GREEN+GREEN

CHARGING GREEN+RED

CHARGED GREEN+GREEN

ERROR FLASHING GREEN

1. Place the charger in a safe position away from moisture, heat or any hazard to the charger or other danger.
2. Connect to suitable power outlet and switch on.
3. Turn the battery so the rails slide smoothly into place on the charger.

Two solid GREEN LED's show mains connection.

One solid GREEN & one solid RED LED, shows fast charging.

When two GREEN LED show again the battery is charged.

Two fast flashing GREEN LED show, there is a charging problem.

The lithium ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

The battery circuitry will allow charging only within a temperature range of 0 °C to 45 °C. It is normal for the battery charger to hum and be warm but not hot during operation.

Unplug the charger when not in use and store it in a dry, secure place. Always remove the battery pack and store it in a dry, secure place when the drill is not in use.

Always charge the battery before storage this prevents excessive discharge which can damage the battery.

Never leave the battery on the charger longer than 24 hours to reduce fire risk.



Sharp blades, heat buildup and flying debris are a danger to user and bystanders. Use of suitable protective clothing, gloves, footwear, eye and ear protection as well as safe working practices can reduce these risks.



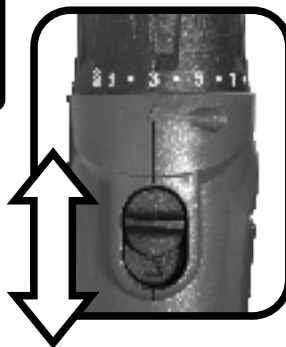
Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- Use dust extraction whenever possible.
 - Provide for good ventilation of the working place.
 - It is recommended to wear a P2 filter class respirator.
- Observe the relevant regulations in your country for the materials to be worked.

Do not cover the venting slots of the machine while working, as this reduces the working life of the machine.

This tool vibrates at very high frequency. Regular breaks must be taken to reduce the chance of injury. At the first sign of discomfort, work should immediately cease.

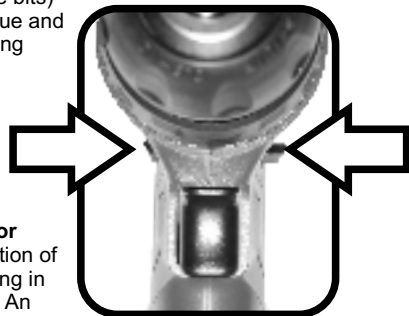


Torque setting

Rotate the collar of the drill/driver to select an appropriate torque for the job. Lower numbers will allow the gearing to slip once the fixing reaches a certain resistance. By adjusting this correctly you can ensure you don't split wood by driving screws too deep, while also helping to stop a driver bit slipping in the fixing.

Speed selector

Slide this forward for fast drilling (recommended for small drill bits) or back for slow drilling (large bits) and for extra torque and control while driving screws and other fixings.



Direction selector

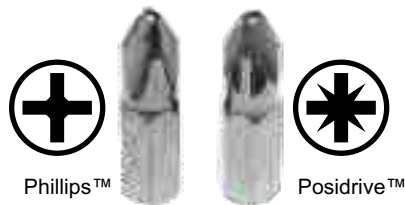
Change the direction of rotation by pressing in on these buttons. An image on the button indicates whether a fixing will be screwed in or out.

Choosing the right tool for the job

Driver bits

There are many types of fixing. Using the correct driver bit is essential for safe work practice.

The image on the right shows Phillips™ and Posidrive™ screw heads and driver bits. These bits are often confused. The easy way to choose the correct driver for a screw is to look for the second cross shape on the Posidrive screw head, use the driver bit with 8 flutes.



Drill bits

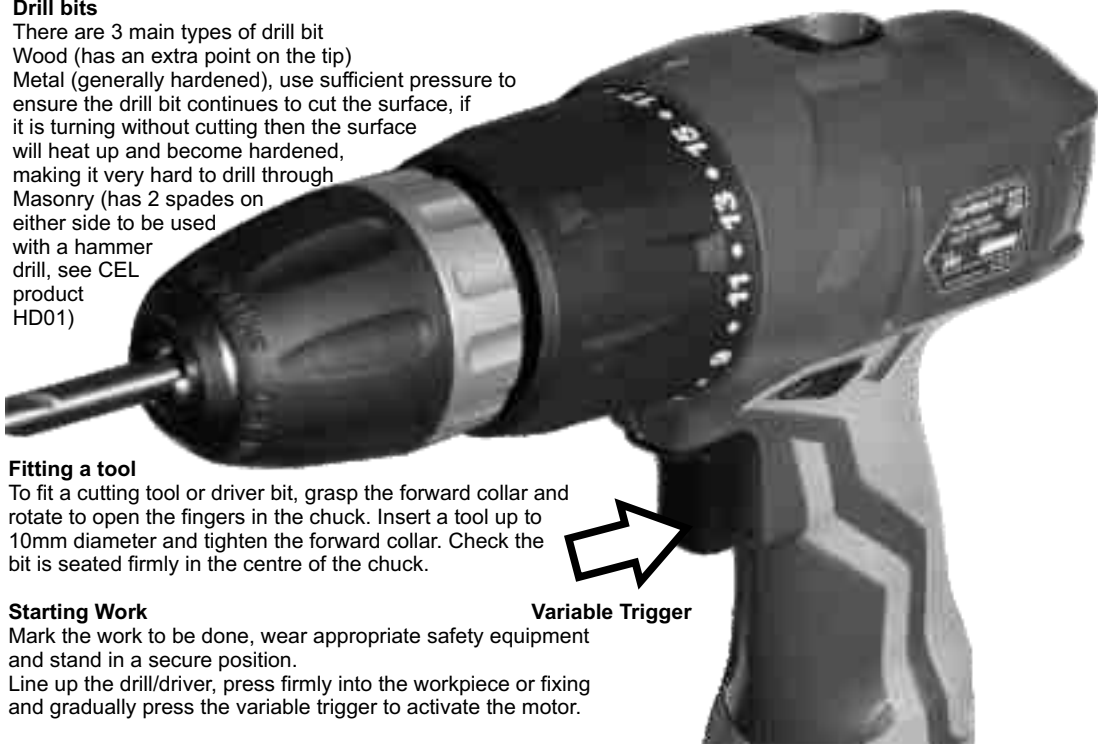
There are 3 main types of drill bit

Wood (has an extra point on the tip)

Metal (generally hardened), use sufficient pressure to ensure the drill bit continues to cut the surface, if it is turning without cutting then the surface will heat up and become hardened, making it very hard to drill through

Masonry (has 2 spades on either side to be used

with a hammer drill, see CEL product HD01)



Fitting a tool

To fit a cutting tool or driver bit, grasp the forward collar and rotate to open the fingers in the chuck. Insert a tool up to 10mm diameter and tighten the forward collar. Check the bit is seated firmly in the centre of the chuck.

Starting Work

Mark the work to be done, wear appropriate safety equipment and stand in a secure position.

Line up the drill/driver, press firmly into the workpiece or fixing and gradually press the variable trigger to activate the motor.

Variable Trigger

Low Voltage Protection

When the discharging current is too high or the remaining battery voltage is not enough to drive the machine, the power supply stop automatically and the LED lights will go out. To reset, slide the power switch to “OFF” position and restart.

Note: If this happens frequently the battery capacity is low, please recharge your battery.

Maintenance

9.0

WARNING, Switch off and remove the battery before carrying out any maintenance on the tool.

General inspection

Regularly check that all the fixing screws are present and tight. They may vibrate loose over time.

Dust

Keep the tool's air vents unclogged and clean at all times.

Remove dust and dirt regularly.

Cleaning is best done with compressed air or a rag.

Never use caustic agents to clean plastic parts.

CAUTION, Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

Store the tool, instruction manual and accessories in a secure, dry place. In this way you will always have all the information and parts ready to hand.

Never store the tool with a flat battery.

The battery should ideally be stored between 10°C and 24°C (50°F) and (75°F).

When the time comes to dispose of this product please consider the environment and take it to a recognised recycling facility instead of disposing with general household waste.

This tool uses a Lithium Ion (Li-Ion) battery which must be disposed of properly.

Call your local council, civic amenity site, or recycling centre for information on the recycling and disposal of electrical products and Lithium Ion (Li-Ion) batteries.



The drill is turning but I can't drill through metal, why?

When drilling metal you need to keep enough pressure on the bit to ensure it continues to cut and not just spin on the spot this will cause the bit to heat up and the metal to harden. Try drilling smaller pilot holes first or use lubrication to keep the bit cool.

Why does the driver bit keep stripping my screws?

You need to use the correct bit and also keep very firm pressure between the bit and the fixing even when unscrewing a fixing.

Do I need to fully discharge the battery before recharging it?

No the Li-Ion system has no memory effect so you can charge it at any time. The charge will be retained in storage for much longer than older battery technology.

My battery is not charging, what's wrong?

Check to make sure the electrical outlet is "live" and that the air surrounding the battery and charger is between 10°C and 24°C (50°F) and (75°F). Make sure the battery is correctly fitted.

In case of excessive loading or when exceeding the allowable battery temperature range, the speed is reduced or the machine switches off. In case of reduced speed, the machine will not run at full speed until after reaching the allowable battery temperature again. In case of automatic shut-off, switch the machine off, allow the battery to cool down and then switch the machine on again.

Why does my Drill/driver stop sometimes?

See above.

The Drill/driver won't start, what's wrong?

- a) Clean as described in the maintenance section.
- b) Check the battery is charged and properly fitted, also make sure the trigger is working and being operated correctly.

Where should I keep my Drill/driver?

In a dry place at a stable temperature between 10°C and 24°C (50°F and 75°F).

What should I do if my Drill/driver gets wet?

Dry fully for several days in a warm but not hot place before trying to charge or use.

How can I get my Drill/driver repaired if it is damaged?

Contact your retailer.

Where do I find my serial number?

On the left hand side of the body.

Where can I get replacement parts, advice or help?

Ask at your retailer or visit www.cel-global.com

How long is the warranty and what is covered?

Please see inside cover

Unit operating time cycle with full battery	- 40 minutes with no load
Rotation Speed	- Low 0-400rpm High 0-1300rpm
Maximum Torque	- 20 Nm
Chuck Capacity	- 10mm
MT1-BP01 Battery operating voltage	- 10.8V DC (3 cells)
Battery makeup	- Lithium Ion (Li-ion) 1300mAh
Charging period for fully discharged battery	- Approx. 1 hour
MT1-CG01 Charger Input	- 100-240vAC 50/60Hz
Charger Output	- 10.8V DC 1.8A
Boxed Dimensions	- 353x266x95mm
	- approx (14x10x4")
Weight	- 0.99Kg (2.2lbs) (not including charger)
Product Code	- DR1

If you experience any problems with the product please contact

email: sales@cel-global.com

phone: UK +44 (0) 8453 88 97 69

www.cel-global.com



**GENERAL HAZARD
SAFETY ALERT**



**BEWARE OF FLYING
OBJECTS AND DEBRIS**



READ INSTRUCTION MANUAL



KEEP BYSTANDERS AWAY





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