

TECHNICAL SPECIFICATIONS

PRODUCT CODE	• LD01	• HD01
MOTOR TYPE/ RATED VOLTAGE	• #550 18V	• #600 18V
GEARS	• 2	• 2
NO LOAD SPEED	• 0-350, 0-950	• 0-350, 0-1250
TORQUE SETTINGS	• 21	• 18+1+1
DRILLING CAPACITY:		
STEEL	• 13mm (½")	• 13mm (½")
WOOD	• 32mm (1.1")	• 32mm (1.1")
CONCRETE/MASONRY	• 13mm (½")	• 13mm (½")
HAMMER FREQUENCY	• N/A	• 0-5600, 0-20000 min ⁻¹
CHUCK CAPACITY	• 10mm (¾")	• 13mm (½")
WEIGHT WITH POWERHANDLE (PH12)	• 1.9kg	• 2.4kg

No person should use this product without first reading and understanding all documentation and warning labels. Keep these instructions safe and provide them to all users.
For use only as outlined in this document, any other use will be considered as misuse.

This product contains materials that should be recycled but can not be disposed of with regular household waste. For disposal options contact your local recycling centre, council offices or your place of purchase.




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UK • HK • USA • China • Europe • Australia • Japan

GUARANTEE

If you experience any problems with the product please contact your supplier or find your regional office via the website:
www.cel-global.com

Guarantee
Normal wear and tear, including accessory wear, is not covered under guarantee. Following successful registration, the product is guaranteed for domestic use against manufacturing faults for a period of 24 months. Proper care is required to maintain this product in working condition. This product is not guaranteed for hire purposes. If you have any questions, please contact us:
www.cel-global.com

Declaration of Conformity
We declare under our sole responsibility that the product described in "Technical Specifications" is in conformity with the following standards or standardisation documents:
EN 60745-1:2006
EN 60745-2-1:2003+A11:07, EN 60745-2-2:2003+A11:07
Technical file can be provided by:
CEL-HK 1604 Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Hong Kong

C Enterprise (UK) LTD
Unit 4 Harbour Road Trading Estate
Portsmouth, BS20 7BL, UK
Chris Elsworth
Managing Director- 24th June, 2013

WARNING! For AC tools and appliances; check that input voltages on the rating plates and the plug types match your local mains supply. If it is different contact your supplier immediately and follow their advice. Do not modify the charger or plug in any way. For DC tools; only use batteries supplied or manufacturer recommended replacements.

This product is sold in several configurations. The images and descriptions in this user manual may differ from your product. For features or accessories not covered by this manual or if you are unsure about a feature or function contact your supplier or visit www.cel-global.com where you can find updated user manuals and compatible parts.

WARNING SYMBOLS



GENERAL
HAZARD



READ
INSTRUCTIONS



PROTECT VISION,
HEARING,
RESPIRATION



FLYING DEBRIS



BE AWARE OF
OTHERS



KEEP DRY



PROTECT FROM
OVERHEATING



WEAR
APPROPRIATE
CLOTHING



SHARP BLADES

IMPORTANT SAFETY NOTES

General Safety Rules for Power Tools

Read all 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 term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tools plus compatible chargers and accessories. POWERhandle refers to an assembly containing a battery of cells, a trigger mechanism and other controls. A POWERhandle contains no user serviceable parts.

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. Always fully uncoil cables to avoid heat buildup.

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 and moving parts.

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. Fully uncoil all cords in use.

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, and/or hearing protection used for appropriate conditions will reduce personal injuries. Be aware of dangerous conditions that can occur while working on certain materials. Take appropriate measures to reduce risk. For example; Oak and Beech can give off harmful dust. Use dust extraction and respiratory protection along with other safety precautions.

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.

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 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.

5) Battery tool 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.

6) Service

Have your power tool serviced by a qualified and approved repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Additional Safety Warnings for Drills

Do not reach underneath the workpiece.

It is important to support the work properly to minimize body exposure, tool binding, or loss of control.

Hold power tool by the insulated gripping surfaces, when performing an operation where the cutting tool may run into hidden wiring. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

Be prepared for kick back and torque twisting from jammed bits and blades, ensure these forces do not pose additional risk.



- ① Keyless Chuck
- ② Torque Ring/Hammer Selector (HD01 only)
- ③ Gear Selector
- ④ Fan Outlet Vent
- ⑤ Rating Label
- ⑥ Brush Cap - Both Sides (HD01 only)
- ⑦ Tool storage - Both Sides
- ⑧ Mounting Rails and Contacts
- ⑨ Direction Switch - Both Sides
- ⑩ POWERhandle Release Slider - Both Sides
- ⑪ Trigger
- ⑫ Soft Insulated Grip
- ⑬ Worklight



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POWERhandle (Sold Separately)
POWERhandle Sold Separately
18V POWERhandle
CEL

INTENDED USE

NOTE! These pages refer to the PH12 POWERhandle (sold separately). If your POWERhandle is different please refer to the relevant instructions for that model.

With an appropriate attachment fitted in the chuck this tool is intended for drilling in wood, metal, ceramics and plastic. It is also used for driving screws and fixings. The HD01 version is also suitable for hammer drilling in concrete, bricks and masonry when the hammer function is enabled.



Inserting the POWERhandle

NOTE! Remove any debris from the area that joins the POWERhandle to the tool. Damage to contacts or mechanical controls could occur if debris is caught between them.

Align the rails on the tool so they will slide smoothly into the rails on the POWERhandle. Once aligned, slide the two parts together firmly until there is a "click" as the locking catch engages. Test the catch is secure and the electrical contacts are engaged by selecting a direction and briefly pressing the trigger.

Removing the POWERhandle

Hold down the POWERhandle Lock Button while sliding the two POWERhandle Release Switches to the rear of the handle and slide the POWERhandle out of the tool from the rear.

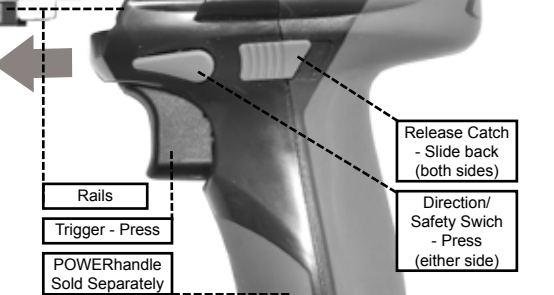
FITTING A POWERhandle

Read and understand all safety warnings and all instructions before operating this product.

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

WARNING! When changing battery, bit or whenever the tool is not in immediate use the direction switch must be in its central locked position to prevent accidental starting. Ensure the tool will not be accidentally started by pressing the trigger.

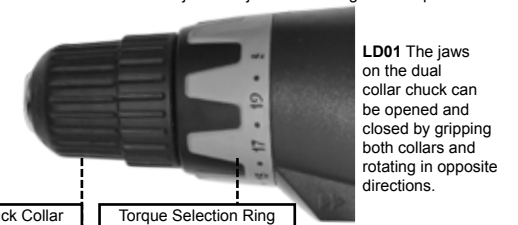
 Sharp blades, heat buildup, harmful dust and flying debris are a danger to user and bystanders. Use of suitable protective clothing, gloves, footwear, lung, eye and ear protection as well as safe working practices can reduce these risks.



FITTING/REMOVING A BIT

To change a drill bit or driver

Lock the trigger by selecting the middle position. Choose an appropriate bit, see the following section. Rotate the Chuck so that the jaws are just wide enough to accept the bit.



LD01 The jaws on the dual collar chuck can be opened and closed by gripping both collars and rotating in opposite directions.

HD01 The electric brake will engage with a battery connected as long as the trigger is not pressed. Grasp the single collar chuck and rotate the Chuck to loosen or tighten the jaws.


Ensure enough of the drill/driver bit is held by the jaws, at least 10mm or 25% should be within the jaws. Check the bit is centred in the jaws and tighten securely.

Note! Before using the bit briefly activate the drill to ensure the bit is centred and secure. If the end of the bit wobbles when rotating then loosen and re-fit.




OPERATING THE TOOL

Select hammer mode, drill mode or a torque setting

 Twist the Torque Control Collar so the required setting is aligned with the arrow on top of the drill.

 Hammer action is indicated by the hammer symbol.

Note! LD01 does not have hammer action.

 Drilling mode is indicated by the drill symbol -the clutch is disabled for maximum torque.

15 Align a number to the arrow to set drive torque, a lower number will apply less torque to the chuck -driving a screw until the clutch disengages the chuck- a high number will drive a screw deeper.

To switch between high and low gear

Release the trigger and allow the drill to stop. Slide the Gear Selector forward toward the chuck for high gear and high speed drilling, HIGH will be displayed.

Tip, use high speed for small diameter drill bits.

Slide toward the rear of the drill to select low gear for low speed and higher torque LOW will be displayed.

Tip, use low speed for large diameter drill bits and driving screws.

WARNING! Wear safety equipment when handling sharp bits and when operating tools.

To change drive direction

Press the Direction Switch on the POWERhandle, it has 3 positions. The centre position locks the trigger, the other positions will turn the chuck clockwise or anti-clockwise.

Note! Always use the locked position when fitting or adjusting a bit or driver.

Note! When drilling always use the clockwise direction except to free a jammed bit.



Drill bits
There are 3 main types of drill bit:
Metal (HSS), 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. Support thin metals with a wood backing to prevent distortion. Lubricate with oil to keep bits cool, beware of fire risks.

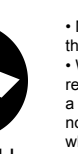
Wood and plastics (has an extra point on the tip), regularly back the drill off to allow swarf (shavings) to clear the hole.

Masonry (has 2 spade head) a hammer drill will make fast work of hard masonry and brick, a small pilot hole before using a large drill bit is faster. When drilling a tile use masking tape to mark the hole and to prevent slipping, firm even pressure and patience will give a good result. Lubricate with water to reduce dust.

Driver Bits

The images on the right show both Phillips™ and Posidrive™ screw heads. These screw heads are often confused. Look for the second cross shape on the Posidrive™ screw head, for this type of screw use the driver bit with 8 flutes. Posidrive™ uses PZ2, PZ3 etc. Phillips™ driver bits are usually marked with PH2, PH3 etc and have 4 flutes. Higher numbers are for larger sizes.

When driving a screw in or removing it, use very firm, controlled pressure to ensure the bit does not slip in the screw head, damaging it. Use the lowest torque setting possible to drive screws flush, this ensures a consistent result and avoids stripped screw heads.



READ ALL INSTRUCTIONS

hole you should notice increased cutting speed.

• When drilling metals you should keep a firm constant pressure that ensures the drill bit is always cutting through the material. If the drill bit is allowed to spin without cutting then heat will build up and harden the surface. Once hardened the material will be very hard to cut and may damage the drill bit. Water or oil continuously applied throughout the process to dissipate heat will help maintain the cutting surfaces. The increased leverage of a drill press/pillar drill can allow the user to apply more pressure to the cut.

• Use a good quality sharp drill bit or hardened driver bit with the correct profile as described below.

• Use sufficient pressure to ensure the drill is always cutting material and back off that pressure to avoid splintering the reverse side of your work and allowing the drill to impact with the work piece.

• When doing big jobs that require constant charging of the batteries remember that you can swap Li-Ion batteries at any time during a charge/discharge cycle.

A 2.6Ah Lithium Ion POWERhandle will be charged to 80% of its full capacity in the first 30 minutes on the fast charger, the final 20% capacity charges at a lower current.



CARE AND ENVIRONMENT

General inspection

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

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.

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.

After each use, carefully clean the tool with a brush or rag. Clear any debris from around the battery mount, moving parts and clips.

Lubrication

No internal lubrication is necessary, the bearing area is sealed. A coating of machine oil on the metal parts will help prevent corrosion.

Storage

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. Lithium ion batteries should ideally be stored with 40 to 80% capacity between 10°C and 20°C (50°F and 68°F).

WARNING! Always charge Li-ion batteries before storage and at least every 3 months to prevent permanent damage.

Environment

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.

Call your local council, civic amenity site, or recycling centre for information on the recycling and disposal of electrical products and batteries. If you do not have access to suitable disposal facilities in your area please contact your place of purchase, they will advise you on the best way to dispose of your product.

Maintenance

All electrical parts should be regularly serviced by an approved engineer.

Replacing brushes (HD01 only)

Order identical brushes from your supplier, consult them or CEL about fitting brushes as incorrect fitting will damage your product. This product contains no other user serviceable parts. Repairs should only be carried out by a CEL authorised repairer.

ASSEMBLE A DRILL PRESS

NOTE! This page refers to parts not included in all packages.

Open the case lid and remove any fitted tools. Insert the Post/Fence vertically into the rear of the case with the small hook toward the rear of the case. Push it down until it locks into place, to adjust the height or remove the post you can lift the Vertical Post Release. Rotate the large end over toward the front of the case until it locks in place. If you want to unlock it, press the 2 Metal Buttons on the sides of the Post and rotate back again.

Hold the Drill firmly and align its Rails with those on the Post. Slide the drill firmly and sharply upward until it locks into place. The 2 Locking Clips will spring toward the drill when it is locked in place, pull these away from the drill when you want to remove it. Fit the Lever/Push Stick into the 2 Lever Holes on either side of the Post and pull downward to press the drill down. The Work Clamp can also be used to hold your work when a small drill bit is fitted.

START / STOP
Fit a POWERhandle into the Main Dock on the case. Use the Green and Red Start / Stop buttons to start and stop the tools fitted to the case. The backlight on the LCD Display will glow green when the Start button is pressed.