TECHNICAL SPECIFICATIONS

PRODUCT CODE • 14	44HD .	• 144DR	• 144ID
MOTOR TYPE • H	longyang #550	Jinmazhi #725	Hongyang #550
RATED VOLTAGE • 14	4.4V	• 14.4V	14.4V
MAXIMUM TORQUE • 1:		• 15Nm	
GEARBOX • N	IETAL+HAMMER	· 2 SPEED	METAL+IMPACT
IMPACT/HAMMER RATE@ENERGY • 0-			
NO LOAD SPEED • 0-	-850RPM	• LOW 0-350RPM	0-2400RPM
TORQUE SETTINGS • N	/A	• 19+1	N/A
CHUCK TYPE / CAPACITY • S		• 3 JAW 10mm (%")	
DRILLING CAPACITY:			
STEEL • 1:		• 13mm (½")	10mm (¾")
WOOD • 2	8mm (1.1")	• 28mm (1.1")	13mm (½")
MASONRY • 13		• 10mm (%")	• 10mm (¾")

This product is sold in several configurations. The Rating Label is fixed inside the battery compartment, check the codes on the Rating Label on your product match those in this user manual. The Rating Label will show basic warnings and specifications. 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.

No person should use this product without first reading and understanding all documentation and warning labels and those from accessories and attachments used. Keep these instructions safe and provide them to all users.

For use only as outlined in this document, any other use will be

This product contains materials that should be recycled but can not be recycling centre, council offices or voi place of purchase.



© C Enterprise LTD 2014 Designed in UK Printed in China Manual Version: 140103

www.cel-global.com • info@cel-global.com UK • HK • USA • China • Europe • Australia • Japan IMPORTANT SAFETY NOTES

With an appropriate SDS PLUS attachment fitted in the chuck this tool is intended for screwing and unscrewing, drilling into wood, metal and lastic as well as masonry work up to the ability of the fitted attachment and within the specification of the tool.

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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. 1) Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite

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

b) Avoid body contact with earthed or grounded surfaces, such as pipes. f) Dress properly. Do not wear loose clothing or lewellery. Keep your hair. radiators, ranges and refrigerators. There is an increased risk of electric clothing and gloves away from moving parts. shock if your body is earthed or grounded. Loose clothes, iewellery or long hair can be caught in moving parts.

c) Do not expose power tools to rain or wet conditions. Water entering a) If devices are provided for the connection of dust extraction and power tool will increase the risk of electric shock. collection facilities, ensure these are connected and properly used. Use

 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.

Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable rate for which it was designed. for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock. Fully uncoil all cords in use power tool that cannot be controlled with the switch is dangerous and

f) If operating a power tool in a damp location is unavoidable, use a must be repaired. residual current device (RCD) protected supply. Use of an RCD reduces c) Disconnect the plug from the power source and/or the battery the risk of electric shock pack from the power tool before making any adjustments, changing

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

b) Use personal protective equipment. Always wear eye protection. e) Maintain power tools. Check for misalignment or binding of moving Protective equipment such as dust mask, non-skid safety shoes, hard parts, breakage of parts and any other condition that may affect the hat, and/or hearing protection used for appropriate conditions will reduce personal injuries. Be aware of dangerous conditions that can occur while use. Many accidents are caused by poorly maintained power tools. working on certain materials. Take appropriate measures to reduce f) Keep cutting tools sharp and clean. Properly maintained cutting tools risk. For example; Oak and Beech can give off harmful dust. Use dust with sharp cutting edges are less likely to bind and are easier to control.

) 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.

application. The correct power tool will do the job better and safer at the

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

energising power tools that have the switch on invites accidents.

enables better control of the power tool in unexpected situations

a) Do not force the power tool. Use the correct power tool for your

Do not use the power tool if the switch does not turn it on and off. Any

accessories, or storing power tools. Such preventive safety measures

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

of dust collection can reduce dust-related hazards.

reduce the risk of starting the power tool accidentally.

result in personal injury.

4) Power tool use and care

carrying the tool. Carrying power tools with your finger on the switch or

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

e) Do not overreach. Keep proper footing and balance at all times. This

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 and Impact Drivers

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

power tool's operation. If damaged, have the power tool repaired before Be prepared for kick back and torque twisting from jammed bits and blades, ensure these forces do not pose additional risk.

your supplier or find your regional office via the website: www.cel-global.com

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

We declare under our sole res

EN 60745-2-6:2010

144ID 2006/42/EC

ZEK 01.4-08.ISSUE 29-11-2011

EN 55014-1:2006+A1:2009+A2:2

EN 55014-2:1997+A1:2001+A2:2008

144HD FN 60745-1:2009+A11:2010

Do not reach underneath the workpiece.

tool "live" and shock the operator.

SYMBOLS

GENERAL



PROTECT VISION. HEARING RESPIRATION

LYING DEBRIS

BE AWARE OF

OVERHEATING

SHARP BLADES





ROTECT FROM





C Enterprise (UK)

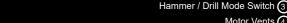
echnical file can be provided by:

CEL-HK 1604 Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Hong Kong

WARNING







This user manual refers to the battery 144BP15 and has specific

sections which are applicable only to the 144HD SDS Hammer Dril

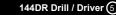
the 144DR Drill/Driver and the 144ID Impact Driver.

Users must read and understand all warnings and documentation

relevant to attachments, accessories and materials used. If absent,

replacement user manuals can be found via www.cel-global.com





High / Low Gear Selector 6

144HD SDS PLUS Hammer Drill (1)

SDS PLUS Chuck and Release Collar 62



Torque Selection Collar (

Motor Vents (10



1/4" Hexagonal Quick Release Bit Holder (12)

Motor Vents (13

144HD SDS+ Hammer Drill Drill/Driv∈r 144DR 144ID Impact Driver

User Manual

CEL



14.4V

PREPARATION

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

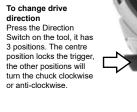
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

WARNING! For AC tools and devices; check that input voltages on the rating plates and the plug types match your local mains supply. If 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 and chargers specifically recommended by the manufacturer.

Prepare your tools and work piece

- Charge your battery as described in the documents provided with
- Select the appropriate accessory for your work.
- Secure your work so it is safe and accessible. Carefully mark areas to be cut or aligned.
- Fit an appropriate accessory to your tool as described in the following sections. Check it is properly seated in the chuck and
- Fit a charged battery as described in the documents provided with the battery, check it is secure, ensure the moving parts are free to turn without doing any harm and run the tool briefly to test both the battery and the alignment of the accessory. Adjust and retest as required.

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





Vibration can cause permanent iniu

if a user is exposed for extended

to seek professional advice if any

pain or discomfort is caused by using

periods. Take regular breaks and st

For regular drilling in wood

and metal or using as a screw

driver, hammer mode should b

disabled by rotating the switch

down and toward the rear of

- Twist 15 Alian 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 disengage 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. 2 will be

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 will be displayed

Tip. use low gear for large diameter drill bits and driving



Bits and screws can be extremely hot after use.

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. Always switch a tool off prior to any adjustment or when fitting or removing a battery.

loosen and re-fit. Select the Torque and gear required

144DR Drill/Driver

Chuck Collar

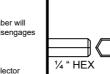
Torque Selection Ring High / Low Gear

Direction + Safety Loc

- Press 3 positions

Twist the Torque Selection Ring so the required setting is aligned with If the battery is hot, damaged or emitting smoke or strong smells it the arrow on top of the drill. should not be used. Contact your seller or CEL to replace faulty items.

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



144ID Impact Driver CHOOSE THE CORRECT TOOL Direction + Safety Lock - Press 3 positions There are 3 main types of drill bit Metal (HSS), use sufficient pressur bit continues to c the surface, if it To change a drill bit or driver is turning without Slide the direction change to cutting then the surface will heat up and become hardened making it very the central, locked position to hard to drill through. Support thin metals with a wood backing to prevent prevent accidental starting. distortion. Lubricate with oil to keep bits cool, beware of fire risks. Remove any driver bits already Wood and plastics (has an extra point on the tip), regularly back the drill in the chuck by pulling the Locking off to allow swarf (shavings) to clear the hole. Collar away from the machine to Masonry (has 2 spade head) a hammer drill will make fast work of hard release the Ball Catch and removing masonry and brick, a small pilot hole before using a large drill bit is faster the bit from the chuck When drilling a tile use masking tape to mark the hole and to prevent Select an appropriate bit for the slipping, firm even pressure and patience will give a good result. Lubricate fixing and insert it into the chuck. with water to reduce dust.

Driver Bits

The images on the right show both Phillips™

and Posidrive™ screw heads. These screw

second cross shape on the Posidrive™ screw

heads are often confused. Look for the

head, for this type of screw use the driver

numbers are for larger sizes.

and avoids stripped screw heads.

bit with 8 flutes Posidrive™ uses P72 P73

etc. Phillins™ driver bits are usually marked

with PH2. PH3 etc and have 4 flutes. Higher

Note! 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

pull the Locking Collar away from the machine and press the bit into

Before using the tool first check that

the bit is held firmly in place and cannot be pulled loose. Operate the too away from the fixing briefly to check for alignment and correct operation before applying the bit to the fixing. Re-fit and re-test the bit's fitting if

Note! Impact Drivers are much more efficient at driving/removing screws and threaded fixings than a rotary drill. Because of this you will see greatly increased battery performance when driving screws when using an impact driver. Because of the high torque levels achieved by these tools a high quality driver bit is recommended. Look for "Hardened" drive bits and bits rated for use with impact drivers.

Although impact drivers are designed for fixings, they make excellent drills as well. Look for 1/4" hexagon fit drill bits or a 1/4" hexagon fit chuck which will allow regular drill bits to be held.



READ ALL **INSTRUCTIONS**

OPERATION TIPS

 Mark vour work and use a hole punch to guide the drill bit or screw into the correct location.

. When drilling start the drill and allow it to reach full speed before starting to cut. Maintain a steady, even pressure and speed that does not slow the rotation speed. Ease off slightly whenever the cutting progress slow and lift the bit out of the hole with the drill still spinning. This will allow debris to leave the hole and relieve pressure. When you press the bit back into the hole you should notice increased cutting speed.

Store all tools, instruction manuals 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% charge between 10°C and 20°C (50°F and 68°F).

WARNING! Always test and charge Li-ion batteries before storage and at least every 3 months to prevent permanent damage. Using the battery for a short period then charging it will allow the charger to balance the voltage between the 4 cells.

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

tightening and loosening a fixing. This pressure should be enough so as not to allow the bit to "cam" out which may strip the fixing head or damage · Clamp or fix scrap material directly under your work to avoid splintering

•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

Use a good quality sharp drill bit or hardened driver bit with the correct

process to dissipate heat will help maintain the cutting surfaces.

When drilling always use the clockwise direction except to free a

Make sure you press the driver bit firmly into the fixing when both

profile as described in the previous section.

- 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-lon batteries at any time during a charge/ discharge cycle.

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

CARE AND ENVIRONMENT

Keep the device's air vents uncloqued and clean at all times. Remove dust and dirt regularly, before it can build u

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 device.

After each use, remove the battery and carefully clean the tool and battery with a brush or rag.

Clear any debris from around the battery mount, moving parts and clips.

household waste

Contact 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 you place of purchase, they will advise you on the best way to dispose of your product.

All electrical parts should be regularly serviced by an approved engineer





