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Cordless Drill

LD100 LD105

To Be Your Exclusive Helper



**TEH**

## TECHNICAL SPECIFICATION

Model	LD100	LD105
Voltage	DC 20V	DC 20V
Motor	Brush	Brushless
Chuck Capacity	1-10mm	1-10mm
Gear	Two speed	Two speed
No Load Speed	0-450/1450r/min	0-450/1450r/min
MAX. Torque	30N.M	50N.M
Adjustable Torque Setting	17+2	20+2
Compatible Battery	LB2.0Ah/LB4.0Ah	LB2.0Ah/LB4.0Ah

## COMPONENTS AND ACCESSORIES



## SAFETY INSTRUCTIONS

### WARNING

**Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or other serious injury. The term “power tools” in all of the warnings listed below refers to mains-operated (corded) power tool or battery operated (cordless) power tool.**

### 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.

### 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 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 tools. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increases 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.

### 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 the risk of personal injuries.
- 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 energizing 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 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) 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.
- h) 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.

l) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

n) 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.

## USE AND HANDLING OF THE CORDLESS ELECTRICAL POWER TOOL

a) Charge a rechargeable battery unit using only the charger recommended by the manufacturer. Chargers are often designed for a particular type of rechargeable battery unit. There is the danger of fire if other types of rechargeable battery units are used.

b) Only the rechargeable battery units supplied are to be used with an electrical power tool. The use of other rechargeable battery units may lead to the danger of injury or fire.

c) When they are not being used, store rechargeable

battery units away from paperclips, coins, keys, nails, screws or other small metal objects that could cause the contacts to be bridged. Short-circuiting the contacts of a rechargeable battery unit may result in heat damage or fire.

d) Fluids may leak out of rechargeable battery units if they are misused. If this happens, avoid contact with the fluid. If contact occurs, flush the affected area with water. Seek additional medical help if any of the fluid gets into your eyes. Escaping battery fluid may cause skin irritation or burns.

## SERVICE

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.

## SPECIAL SAFETY DIRECTIONS FOR BATTERY-OPERATED TOOLS

a) Ensure that the device is switched off before inserting the battery. Inserting a battery into a power tool that is switched on may result in accidents.

b) Recharge the batteries indoors only because the battery charger is designed for indoor use only.

c) To reduce the electric shock hazard, unplug the battery charger from the mains before cleaning the charger.

d) Do not subject the battery to strong sunlight over long periods and do not leave it on a heater. Heat damages the battery and there is a risk of explosion.

e) Allow a hot battery to cool before charging.

f) Do not open up the battery and avoid mechanical damage to the battery. Risk of short circuit and fumes may be emitted that irritate the respiratory tract. Ensure fresh air and seek medical assistance in the event of discomfort.

g) Do not use non-rechargeable batteries!

## CORRECT HANDLING OF THE BATTERY CHARGER

a) This device can be used by children aged 8 and over and by people with reduced physical, sensory or mental capacities or with a lack of experience or knowledge, if they are supervised or have been instructed regarding safe use of the device and understand the resulting risks. Children are not permitted to play with the device. Cleaning and user maintenance are not to be undertaken by children without supervision.

b) Children should be supervised to ensure that they do not play with the appliance.

c) To charge the battery, use only the charger supplied. Risk of fire and explosion. This ensures that the safety of the device is maintained.

d) Before each use, check the charger, cable and plug and have them repaired by qualified professionals and only with original parts. Do not use a defective charger and do not open it up yourself. This ensures that the safety of the device is maintained.

- e) Connect the charger only to a socket with an earth. Ensure that the mains voltage matches the specifications on the charger rating plate. Risk of electric shock.
  - f) Disconnect the charger from the mains before closing or opening connection to the battery / power tool / device.
  - g) Keep the charger clean and away from wet and rain. Do not use the charger outdoors. Dirt and the entry of water increase the risk of electric shock.
  - h) Operate the charger only with the appropriate original batteries. Charging other batteries may result in injuries and risk of fire.
  - i) Avoid mechanical damage to the charger. This can result in internal short circuits.
  - j) Do not operate the charger on a combustible surface (e.g. paper, textiles). Risk of fire due to heating during charging.
  - k) If the power cable for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or a similarly qualified person in order to prevent hazards.
  - l) The battery of the appliance is not fully charged at the time of delivery. It therefore needs to be fully recharged before you use it for the first time. For the first recharge cycle we recommend that you charge the battery for about 1 hour. Slot the battery into the base and plug the battery charger into a mains outlet.
  - m) When the battery is fully charged, unplug the charger from the mains and from the appliance. Charging time is approx. 1 hour.
  - n) Do not charge the battery continuously since this may damage the battery cells.
- Note: Repeatedly charging small capacities may damage the battery cells. Recharge the battery only if the appliance is becoming slow.
- o) Do not use the charger to charge non-rechargeable batteries.

## RESIDUAL RISKS

Even if properly operating and handling this electric tool, some residual risks will remain. Due to its construction and build, this electric tool may present the following hazards:

- a) Cuts
- b) Ear damage if working without ear protection.
- c) Damage to your health caused by swinging your hands and arms when operating the appliance for longer periods of time or if the unit is not held or maintained properly.

## WARNING

**During operation, this electric tool generates an electromagnetic field which, under certain circumstances, may impair the functionality of active or passive medical implants. To reduce the risk of serious or lethal injuries, we recommend that persons with medical implants consult their doctor and the manufacturer of their medical implant before operating the machine.**

## SAFETY WARNINGS FOR DRILLS AND SCREWDRIVERS

1. Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
2. Hold power tool by insulated gripping surfaces when performing an operation where the cutting accessory or fastener may contact hidden wiring. Cutting accessory and fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
3. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
4. Use appropriate 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.

5. Switch off the power tool immediately when the tool is jams. Be prepared for high reaction torque that can cause kickback.
6. Hold the machine with a firm grip. High reaction torque can briefly occur while driving in and loosening screws.
7. Do not open the battery. Danger of short circuiting.



Protect the battery against heat, e. g., against continuous intense sunlight, fire, water, and moisture. Danger of explosion.

8. In case of damage and improper use of the battery, vapours may be emitted. Ventilate the area and seek medical help in case of complaints. The vapours can irritate the respiratory system.
9. Use the battery only in conjunction with your Bosch power tool. This measure alone protects the battery against dangerous overload.
10. The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally. An internal short circuit can occur and the battery can burn, smoke, explode or overheat.
11. The battery is supplied partially charged. To ensure full battery capacity, completely charge the battery in the battery charger before using for the first time.
12. Read the operating instructions of the battery charger.
13. Adjust the gear switch only when the machine is at a complete stop.
14. Always push the gear selector and turn the operating mode selector switch through to the stop. Otherwise, the machine can become damaged.

## MACHINE DESCRIPTION



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

1. The machine is intended for driving in and loosening screws as well as for drilling in wood, metal, ceramics and plastic. Impact drills are additionally intended for impact drilling in bricks, brickwork and masonry.
2. The light of this power tool is intended to illuminate the power tool's direct area of working operation and is not suitable for household room illumination.

## INSTALLATION INSTRUCTION

### BATTERY CHARGING

#### NOTE

**The battery supplied is partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.**

1. The lithium ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.
2. The lithium ion battery is protected against deep discharging. When the battery is empty, the machine is switched off by means of a protective circuit: The inserted tool no longer rotates.
3. Do not continue to press the On/Off switch after the machine has been automatically switched off. The battery can be damaged.

## REMOVING THE BATTERY

1. The battery is equipped with two locking levels that should prevent the battery from falling out when pushing the battery unlocking button unintentionally. As long as the battery is inserted in the power tool, it is held in position by means of a spring.
2. To remove the battery, press the unlocking button and pull out the battery toward the front. Do not exert any force.

## CHANGING THE TOOL (SEE FIGURE A)

Before any work on the machine itself (e. g. .maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool. There is danger of injury when unintentionally actuating the On/Off switch.

Open the keyless chuck by turning in rotation direction **1**, until the tool can be inserted. Insert the tool.

Firmly tighten the collar of the keyless chuck **2** by hand in rotation direction **2**. This automatically locks the drill chuck.



## DUST/CHIP EXTRACTION

1. Dust from materials such as lead containing coatings, some wood types, minerals and metal can be harmful to one's health and cause allergic reactions, lead to respiratory infections and/or cancer. Materials containing asbestos may only be worked by specialists.
2. Provide for good ventilation of the working place.
3. It is recommended to wear a P2 filter-class respirator. Observe the relevant regulations in your country for the materials to be worked.
4. Prevent dust accumulation at the workplace. Dust can easily ignite.

## OPERATION INSTRUCTION

### INSERTING THE BATTERY

#### NOTE

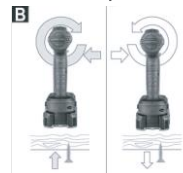
**Use of batteries not suitable for the machine can lead to malfunctions of or cause damage to the power tool.**

Set the rotational direction switch to the center position in order to avoid unintentional starting. Insert the charged battery into the handle so that it can be felt to engage and faces flush against the handle.

### REVERSING THE ROTATIONAL DIRECTION (SEE FIGURE B)

The rotational direction switch is used to reverse the rotational direction of the machine. However, this is not possible with the On/Off switch actuated.

1. Rotate clockwise: Move the rotational direction switch on both sides up to the stop into position.
2. Rotate anticlockwise: Move the rotational direction switch on both sides down to the stop into position.



## SETTING THE OPERATING MODE



Drilling

Set the operating mode selector switch to the "drilling" symbol.



Screw driving

Set the torque selector setting ring to the "screw driving" symbol.

## SWITCHING ON AND OFF

To start the machine, press the On/Off switch and keep it pressed. The LED lights up when the On/Off switch is halfway or fully pressed, and enables illumination of the screwing location in unfavorable light conditions.

## ADJUSTING THE SPEED

The speed of the switched-on power tool can be variably adjusted, depending on how far the On/Off switch is pressed.

Light pressure on the On/Off switch results in a low rotational speed. Further pressure on the switch results in an increase in speed.

### Setting the torque

With the torque preselection ring, the required torque can be preselected in 17 or 20 steps. The inserted tool is stopped as soon as the set torque is reached.

### Gear selection

The gear selector can be actuated at standstill or when the machine is running. However, this should not be done while operating at full load or maximum speed.



1st gear:

Low speed range; for working with large drilling diameters.



2nd gear:

High speed range; for drilling with small drilling diameter.

## TEMPERATURE DEPENDENT OVERLOAD PROTECTION

When using as intended for, the power tool cannot be subject to overload. When the load is too high or the allowable battery temperature range is exceeded, the speed is reduced. The power tool will not run at full speed until reaching the allowable battery temperature.

## PROTECTION AGAINST DEEP DISCHARGING

The lithium-ion battery is protected against deep discharging. When the battery is empty, the machine is switched off by means of a protective circuit: The inserted tool no longer rotates.

## WORKING ADVICE

Apply the power tool to the screw only when it is switched off. Rotating tool inserts can slip off. An auxiliary tool can be used to remove the screwdriver bit or universal bit holder.

## BELT CLIP

With the belt clip, the machine can be hung onto a belt. The user has both hands free and the machine is always at hand.



## MAINTENANCE

Before any work on the machine itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool. There is danger of injury when unintentionally actuating the On/Off switch.

For safe and proper working, always keep the machine and ventilation slots clean.

When the battery is no longer operative, please refer to an authorized after-sales service agent for TEH. power tools.

## DISPOSE OF WASTE



Damaged power tools, batteries, accessories and waste packaging materials must be recycled and reused in an environmentally friendly manner.

Do not throw power tools and accumulators batteries into general household waste!

## WARRANTY CARD

Dear customers, the warranty service for purchasing TEH products is as follows:

Under normal use, within one year from the date of purchase. It is guaranteed that the damage is caused by the quality of the tool.

**The following conditions occur during the warranty period, not covered by the warranty:**

- Any valid legal document (single ticket) certifying the date of purchase
- Any damage caused by natural wear and overload
- Any damage caused by the use of low-priced inferior accessories
- Any damage caused by improper carrying, transportation or storage
- Any product that has been opened, repaired, replaced, or modified by itself
- Any damage caused by misuse, beyond the scope of use of the tool, and failure to use and maintain in accordance with the instructions

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 ladies/gentlemen: \_\_\_\_\_ employer: \_\_\_\_\_

contact number: \_\_\_\_\_ fax number: \_\_\_\_\_

contact address: \_\_\_\_\_

warranty record: \_\_\_\_\_

post code: \_\_\_\_\_

### IMPORTANT NOTE

- The invoice and warranty card must be presented at the time of warranty.
- The fuselage number on the invoice is the same as the fuselage number on the warranty card.
- Once this warranty card is issued, if it is lost, it will not be reissued. Please keep it properly.

Note: The company reserves the right to amend the above provisions and has the final interpretation right in the case that the warranty service does not violate national laws.