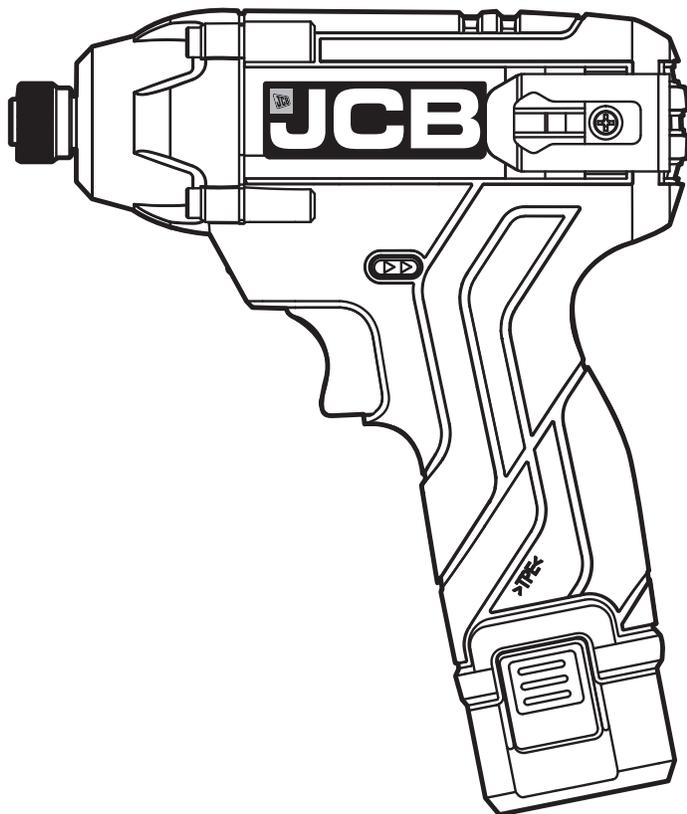




Safety and operating manual  
**Cordless Impact Driver**  
**JCB-MD12LI2**





# ORIGINAL INSTRUCTIONS

## GENERAL POWER TOOL SAFETY WARNINGS



**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 term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### 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.

- 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 personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce 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 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**

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.

## **SCREW DRIVER AND IMPACT WRENCH SAFETY WARNING**

1. Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

## SAFETY WARNINGS FOR BATTERY PACK

- a) Do not dismantle, open or shred cells or battery pack.
- b) Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials. 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.
- c) Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
- d) Do not subject battery pack to mechanical shock.
- e) In the event of battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- f) Seek medical advice immediately if a cell or battery pack has been swallowed.
- g) Keep battery pack clean and dry.
- h) Wipe the battery pack terminals with a clean dry cloth if they become dirty.
- i) Battery pack needs to be charged before use. Always refer to this instruction and use the correct charging procedure.
- j) Do not maintain battery pack on charge when not in use.
- k) After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.
- l) Battery pack gives its best performance when it is operated at normal room temperature ( $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ ).
- m) When disposing of battery packs, keep battery packs of different electrochemical systems separate from each other.
- n) Recharge only with the charger specified by JCB. Do not use any charger other than that specifically provided for use with the equipment. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- o) Do not use any battery pack which is not designed for use with the equipment.
- p) Keep battery pack out of the reach of children.
- q) Retain the original product literature for future reference.
- r) Remove the battery from the equipment when not in use.
- s) Dispose of properly.

# SYMBOLS



To reduce the risk of injury, user must read instruction manual



Warning



Wear ear protection



Wear eye protection



Wear dust mask



Do not expose to rain or water



Do not burn

This product has been marked with a symbol relating to removing electric and electronic waste. This means that this product shall not be discarded with household waste but that it shall be returned to a collection system which conforms to the European Directive 2002/96/CE. It will then be recycled or dismantled in order to reduce the impact on the environment. Electric and electronic equipment can be hazardous for the environment and for human health since they contain hazardous substances.

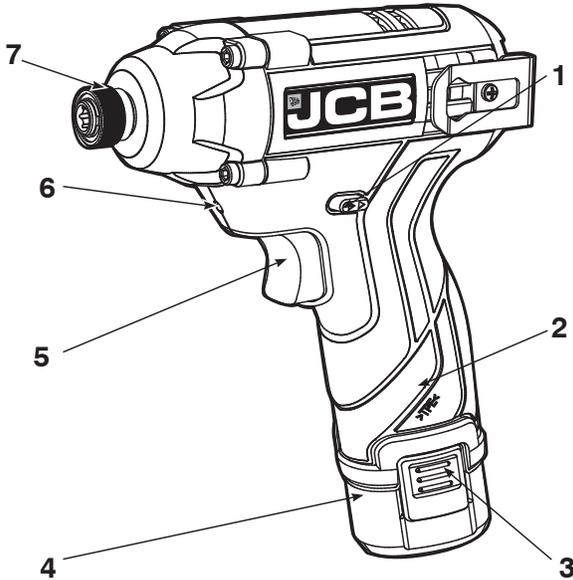


Do not dispose of batteries. Return exhausted batteries to your local collection or recycling point



Always charge the battery pack between temperatures 0°C to 30°C

# COMPONENT LIST



<b>1. FORWARD, REVERSE ROTATION AND LOCK CONTROL</b>
<b>2. SOFT GRIP HANDLE</b>
<b>3. BATTERY PACK LATCH</b>
<b>4. BATTERY PACK *</b>
<b>5. ON/OFF SWITCH WITH VARIABLE SPEED CONTROL</b>
<b>6. LED LIGHT</b>
<b>7. COLLET LOCKING SLEEVE</b>
<b>8. BELT CLIP</b>

**\*Not all the accessories illustrated or described are included in standard delivery.**

## TECHNICAL DATA

Voltage	12V 
No load speed	0-2400/min
Impact rate	0-3000bpm
Watt hour	15.6Wh
Max torque	90N.m
Chuck size	1/4" (6.35mm)
Machine weight	1.0Kg

## NOISE INFORMATION

A weighted sound pressure  $L_{pA}$ : 79dB (A)

A weighted sound power  $L_{wA}$ : 89dB (A)

$K_{pA}$  &  $K_{wA}$  = 3.0dB(A)

Wear ear protection when sound pressure is over: 80dB(A) 

## VIBRATION INFORMATION

Vibration total values (triax vector sum) determined according to EN 60745:

Typical weighted vibration

Vibration emission value  $a_{h,D} = 11.82 \text{ m/s}^2$

Uncertainty  $K = 1.5 \text{ m/s}^2$

The declared vibration total value may be used for comparing one tool with another, and may also be used in a preliminary assessment of exposure.

 **WARNING:** The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.

The tool being in good condition and well maintained.

To use the correct accessory for the tool and ensure it is sharp and in good condition.

The tightness of the grip on the handles and if any anti vibration accessories are used.

And the tool is being used as intended by its design and these instructions.

**This tool may cause hand-arm vibration syndrome if its use is not adequately managed.**



**WARNING:** To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimize your vibration exposure risk.

ALWAYS use sharp chisels, drills and blades.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

If the tool is to be used regularly then invest in anti vibration accessories.

Avoid using tools in temperatures of 10°C or less.

Plan your work schedule to spread any high vibration tool use across a number of days.

## ACCESSORIES

1.3 Ah lithium battery pack	2(in twinpack)
30min charger	1(in twinpack)
Impact bits	2
Belt clip	1

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

# OPERATING INSTRUCTIONS



**NOTE:** Before using the tool, read the safety and operating manual carefully.

## INTENDED USE:

This tool is intended for the fastening and loosening of bolts, nuts and various threaded fasteners. This tool is not intended for use as a drill.

## BEFORE PUTTING INTO OPERATION

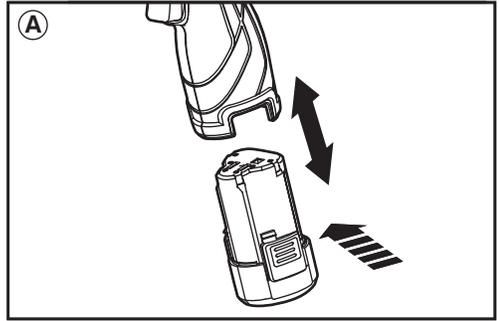
### A) CHARGING THE BATTERY

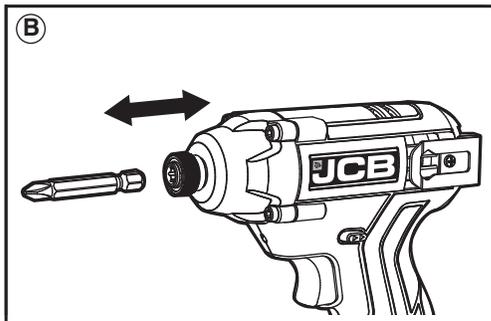
Your battery pack is UNCHARGED and you must charge once before use.

**WARNING:** the charger and battery pack are specifically designed to work together so do not attempt to use any other devices. Never insert or allow metallic objects into your charger or battery pack connections because an electrical failure and hazard will occur.

### B) TO REMOVE OR INSTALL BATTERY PACK (See A)

Depress the battery pack release button to release and slide the battery pack out from your tool. After recharge, slide it back into your tool. A simple push and slight pressure will be sufficient.





## OPERATION

### 1. INSERTING A BIT HOLDER, SOCKET OR SCREWDRIVER BIT (See B)

Pull the collet locking sleeve forward. Fully insert the desired bit into the chuck to the stop and release the collet locking sleeve.

### 2. REMOVING A BIT HOLDER, SOCKET OR SCREWDRIVER BIT (See B)

Pull the collet locking sleeve forward. Take the tool out of the chuck and release the collet locking sleeve.

### 3. SWITCH LOCK

The switch trigger can be locked in the OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation selector in the center position.

### 4. REVERSIBLE

For drilling and screw driving use forward rotation marked “◁▷” (lever is moved to the left). Only use reverse rotation marked “▷▷” (lever is moved to the right) to remove screws.



**WARNING: Never change the direction of rotation when the chuck is rotating, wait until it has stopped!**

## **5. LED LIGHT (6)**

To turn on the light simply press the on/off switch. When you release the on/off switch, the light will be off.

LED lighting increases visibility-great for dark or enclosed area. LED is also a battery capacity indicator. It will flash when power gets low.

## PROBLEM SOLUTION

### I CANNOT FIT THE BATTERY INTO THE BATTERY CHARGER.

#### WHY?

- a) Check if the charger and the battery pack are specifically designed for working together.
- b) The battery can be inserted into the charger only in one direction. Turn the battery around until it can be inserted into the slot, the indicator light should be red when the battery is charging.

## REASONS FOR DIFFERENT CHARGING TIMES

Battery charging time can be affected for many reasons which are not defects in your product.

- a) If the battery pack is only partly discharged it may be re-charged in less than 1 hour.
- b) If the battery pack and ambient temperature are very cold then re-charging may take 1-1.5 hours.
- c) If the battery pack is very hot it will not re-charge because the internal temperature safety cutout will prevent charging it. If the battery pack is very hot you must remove your battery pack from the charger and allow your battery pack to cool first to ambient temperature and then recharging can be started.

## MAINTENANCE

Your power tool requires no additional lubrication or maintenance.

There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.

## ENVIRONMENTAL PROTECTION



This product has been marked with a symbol relating to removing electric and electronic waste. This means that this product shall not be discarded with household waste but that it shall be returned to a collection system which conforms to the European Directive 2002/96/CE. It will then be recycled or dismantled in order to reduce the impact on the environment. Electric and electronic equipment can be hazardous for the environment and for human health since they contain hazardous substances.

## DISPOSAL OF AN EXHAUSTED BATTERY PACK



To preserve natural resources, please recycle or dispose of the battery pack properly. This battery pack contains Li-ion batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your tool, then remove the battery pack from the tool housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

# WARRANTY STATEMENT

## A product of hard work

In every corner of the world you'll find a JCB machine. Since our beginnings in 1945, we have always invested heavily in research and development, keeping JCB at the cutting edge of innovation. Today, JCB has some of the finest engineering facilities across the globe, producing a range of over 300 machines and maintains a reputation for unrivaled customer service. The same innovation to always get the job done better, the same quality to never let you down, the same engineering heritage and expertise that you can trust, can be found in JCB Power Tools. JCB power tools are guaranteed against manufacturing defects for a period of 3 years from the date of purchase.

If your JCB power tool becomes defective within this warranty period, we guarantee to:

- Replace or repair all defective parts, free of charge, or
- Repair products free of charge, or
- Replace the unit with a new or re-conditioned unit, free of charge.

## Conditions

Your 3 year guarantee does not cover defects caused by or resulting from:

- overload, misuse, or neglect
- normal wear and tear, including accessory wear
- hire use
- repairs attempted by anyone other than an authorised agent
- damage caused by foreign objects, substances or accidents

Your 3 year guarantee does not cover:

- battery packs as they are guaranteed for a 12 month period
- accessories supplied with the power tool.

## Warranty claims

For guarantee claims, please contact JCB Customer Services. You will be required to submit proof of purchase.

## JCB CUSTOMER HELPLINE 0333 0143092

### Terms

This guarantee does not affect your statutory rights. JCB SO53 3LE (Registered in England under No. 973387).

# EC DECLARATION OF CONFORMITY

We,  
**Positec Power Tools (Europe) Ltd**  
PO Box 6242, Newbury, RG14 9LT, UK

Declare that the product  
Description

**JCB CORDLESS IMPACT DRIVER**

Type  
**(JCB-MD12LI2)**

Function

**Tightening and loosening screws, nuts with a rotary impact mechanism**

Complies with the following Directives,  
EC Machinery Directive

**2006/42/EC**

EC Electromagnetic Compatibility Directive

**2014/30/EU**

RoHS Directive

**2011/65/EU**

Standards conform to

**EEN 55014-1**

**EN 55014-2**

**EN 60745-1**

**EN 60745-2-2**

The person authorised to compile the technical file,

**Name: Russell Nicholson**

**Address: Positec Power Tools (Europe) Ltd**  
**PO Box 6242, Newbury, RG14 9LT, UK**



**Suzhou 2016/01/11**

**Allen Ding**

**Deputy Chief Engineer, Testing & Certification**





