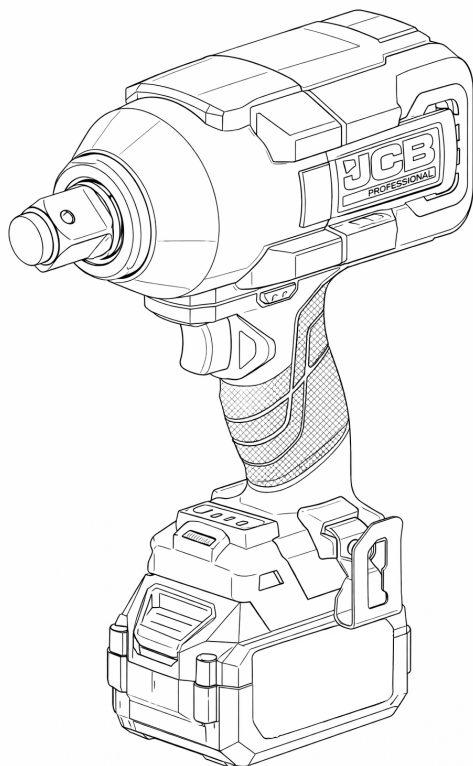




**JCB-I8PIW-2000**

**JCB-I8PIW-2300**



## GENERAL WARNINGS & DISPOSAL



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



This symbol is used throughout this manual to warn the user about potential risks. Please read & understand these sections before using the device.



Personal Protective Equipment (PPE.), such as ear defenders, eye protection, safety gloves and a dust mask, must be worn during the operation of the device.



The device must not be exposed to rain or immersed in water.



Do not allow any part of the device to come into contact with flames, or to catch fire.



Do not expose battery pack or tool to fire or excessive temperatures.



Do not dispose of batteries in household waste. Return exhausted batteries to a local collection or recycling point.



This product has been marked with a symbol relating to removing electric and electronic waste. The product should not be discarded with household waste but must be returned to a collection system which conforms to the European Directive 2012/19/EU. 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.

The month and year of manufacture can be found within the product serial number e.g. MMYYPXXXXXXX. Where production month (MM) and production year (YY) are included.  
21-18ID Designation of the tool (18 - 18Vdc, ID - Impact Driver)

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# GENERAL POWER TOOL SAFETY WARNINGS



## WARNING!

**Read all safety warnings, instructions and specifications provided with the charger.** Failure to follow all instructions listed below 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

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **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.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### 2. Electrical safety

- **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.
- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

- **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.
- **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

- **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.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **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. **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.

- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

#### 4. Power tool use and care

- **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.
- **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.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

#### 5. Battery tool use and care

- **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.

- **When the 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.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, an explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

#### 6. 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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.



# TOOL SPECIFIC SAFETY WARNINGS

## 1. Safety instructions for all operations

- **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
- **Hold the 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.
- **Use a detector to locate lines in walls with concealed electric, water or gas lines. Avoid touching live components or conductors.** Inadvertant contact with hidden items may cause serious injury or damage to the tool.
- **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage or loss of control, resulting in personal injury.

### NOTE

Ensure that any tool bits or accessories used with this power tool are genuine good quality JCB branded items, or similar equivalent quality. The use of low-grade or modified items may result in failure and possible operator injury.

**Do not insert standard 25mm long hex bits directly into the chuck as they are unsuitable for use in impact driver chucks. 25mm long hex bits can instead be fitted into a suitable hex bit tool holder.**

## 2. Safety instructions when using drill bits

- **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

# CHARGER SAFETY

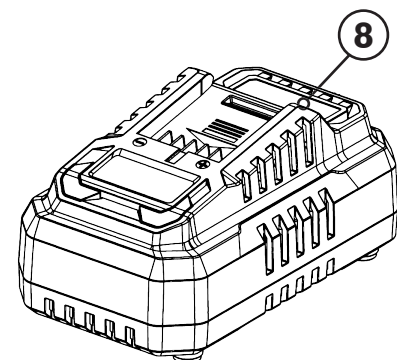
## **WARNING!**

**Read all safety warnings, instructions and specifications provided with the charger.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

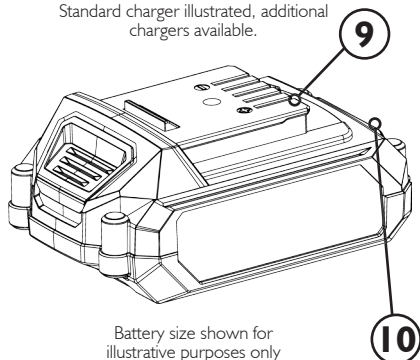
- **To reduce risk of injury, only charge JCB rechargeable batteries.** The charger and battery packs are specifically designed to work together. Other types of batteries may burst causing fire and personal injury.
- **Do not allow any liquid to get inside the charger.** Electric shock may result.
- **Do not expose the charger to rain or snow.**
- **Under certain conditions with the charger plugged into the power supply, the exposed charging contacts inside the charger can be shorted by foreign materials.** Foreign materials of a conductive nature such as, but not limited to, steel, wool, aluminium foil or any buildup of metallic particles should be kept away from charger cavities.
- **Always unplug the charger from the power supply when there is no battery in the cavity.**
- **Unplug the charger from the power supply before attempting to clean.**
- **Do not operate the charger with a damaged cord or plug.** Have them replaced immediately.
- **JCB chargers are designed to operate on standard household supply voltages. Check the rating plate of the charger matches your local supply voltage. (Note: the dual charger can additionally operate on worldwide 100-240V AC 50-60Hz input voltage). Do not attempt to use the chargers on any other supply voltage or serious injury may occur.**
- **This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.**  
Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- **If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.**



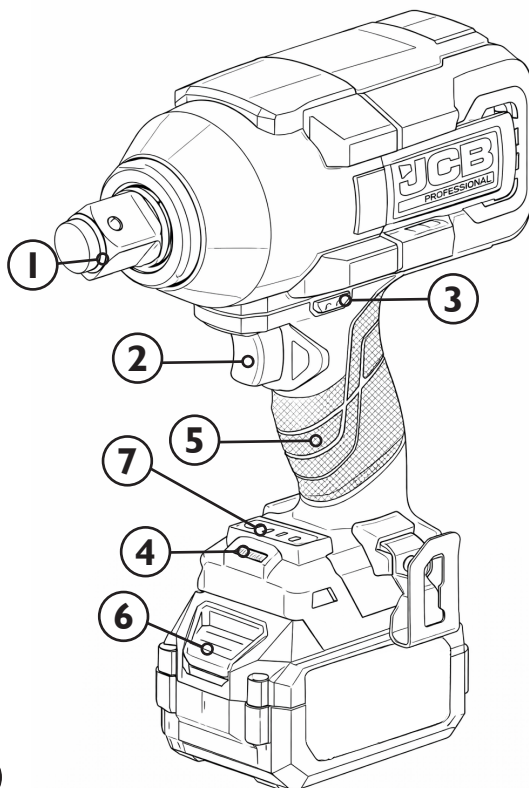
# COMPONENT LIST



Standard charger illustrated, additional chargers available.



Battery size shown for illustrative purposes only



- |    |                                 |     |                                                           |
|----|---------------------------------|-----|-----------------------------------------------------------|
| 1. | BIT ADAPTER                     | 6.  | BATTERY RELEASE BUTTON                                    |
| 2. | ON/OFF TRIGGER                  | 7.  | SETTINGS PANEL                                            |
| 3. | CHUCK DIRECTION SELECTOR SWITCH | 8.  | CHARGER* - refer to page 10 for further information       |
| 4. | AUTOMATIC LED LIGHT             | 9.  | BATTERY PACK* - refer to page 10 for further information. |
| 5. | INSULATED GRIP                  | 10. | BATTERY TEST BUTTON AND CHARGE INDICATOR*                 |

\*If applicable

## TOOL TECHNICAL DATA

|                                                |                                        |
|------------------------------------------------|----------------------------------------|
| <b>Rated Voltage</b>                           | 18V d.c.                               |
| <b>Rated No-Load Speed</b>                     | $n_o$ : 0-800/0-1200/0-1550 $\pm$ 10%  |
| <b>Impact Rate</b>                             | 0-1000/0-1400/0-2000 bpm               |
| <b>JCB-18PIW-2000 Torque Settings</b>          | 700nm/900nm/1600nm + breakaway         |
| <b>JCB-18PIW-2300 Torque Settings</b>          | 800nm/1000nm/1800nm + breakaway        |
| <b>Drive JCB-18PIW-2000</b>                    | 3/4" Square                            |
| <b>Drive JCB-18PIW-2300</b>                    | 1" Square                              |
| <b>Product Weight (Body only, w/o battery)</b> | 3.78kg - PIW-2000<br>3.89kg - PIW-2300 |
| <b>Motor Type</b>                              | Brushless                              |
| <b>Motor Protection</b>                        | Automatic over-current cut-off         |

## LITHIUM ION BATTERY TECHNICAL DATA

| Battery Code                                                                                           | Battery Size | Voltage | Battery Capacity | Charge Time<br>(18FC-45 Fast Charger) | Charge Time<br>(18-FC9 Super Fast Charger) | Charge Time<br>(18-DC45 Dual Fast Charger) |
|--------------------------------------------------------------------------------------------------------|--------------|---------|------------------|---------------------------------------|--------------------------------------------|--------------------------------------------|
| 18LI-2                                                                                                 | Small        | 18V     | 2.0Ah            | 45 mins                               | 45 mins                                    | 45 mins                                    |
| 18LI-4HC                                                                                               | Small        | 18V     | 4.0Ah            | 65 mins                               | 45 mins                                    | 65 mins                                    |
| 18LI-5                                                                                                 | Large        | 18V     | 5.0Ah            | 75 mins                               | 45 mins                                    | 75 mins                                    |
| Times given as a guide only. Battery charge and discharge times dependant on age, usage and condition. |              |         |                  |                                       |                                            |                                            |

## CHARGER TECHNICAL DATA

| Charger Type              | Input Data                 | Output Data                                       |
|---------------------------|----------------------------|---------------------------------------------------|
| 18FC-45 Fast Charger      | AC 220-240V, 50-60Hz, 120W | 18V d.c. 4.5A                                     |
| 18FC-9 Super Fast Charger | AC 220-240V, 50-60Hz, 185W | 20.5V d.c. 9.0A                                   |
| 18DC-45 Dual Fast Charger | AC 220-240V, 50-60Hz, 260W | 18V d.c. 2 x 4.5A<br>USB-A & USB-C = 5V d.c. 2.4A |



# NOISE INFORMATION

Total noise values determined according to EN 62841-2-1

|                                                                 |          |
|-----------------------------------------------------------------|----------|
| <b>A-Weighted Sound Pressure (<math>L_{pA}</math>)</b>          | 87 dB(A) |
| <b>A-Weighted Sound Power (<math>L_{wA}</math>)</b>             | 98 dB(A) |
| <b><math>K_{pA}</math> &amp; <math>K_{wA}</math></b>            | 3 dB(A)  |
| <b>Wear ear protection when sound pressure is over 80 dB(A)</b> |          |

## **WARNING!**

Wear hearing protection.  
The effects of noise can cause a loss of hearing. The above-mentioned noise emission values were measured in accordance with a standardised test procedure and can be used to compare one power tool with another.  
The above-mentioned noise emission values can also be used for the preliminary assessment of exposure.

## **WARNING!**

The noise emissions during the actual use of the power tool may differ from the above-mentioned values depending on the power tool being used, in particular on the type of workpiece being processed.  
Try to keep emissions as low as possible, for example by limiting your working time. In this regard, all the operational cycle phases must be taken into consideration (such as the times when the tool is switched off or running idle).



# VIBRATION INFORMATION

**Vibration total values (triax vector sum) determined according to EN 62841-1 and EN 62841-2-2**

|                                                    |                       |
|----------------------------------------------------|-----------------------|
| <b>Vibration Emission Value (<math>a_h</math>)</b> | 22.4 m/s <sup>2</sup> |
| <b>Uncertainty (K)</b>                             | 1.5 m/s <sup>2</sup>  |

## **WARNING!**

The vibration emission value of the power tool is tested under EN 62841-1 and EN 62841-2-2, and can vary during operation depending on the following usage conditions:

- How the tool is used and the materials being cut or drilled.
- The tool being in good condition and well maintained.
- Using the correct accessory for the tool and ensuring it is sharp and in good condition.
- The tightness of the grip on the handles and if any anti-vibration accessories are used.
- The tool being used as intended by its design and these instructions.
- The declared vibration total value may also be used in a preliminary assessment of exposure.

**THIS TOOL MAY CAUSE  
HAND-ARM VIBRATION SYNDROME  
(HAVS) IF USAGE 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. These include times when the tool is switched off and when it is running idle but not actually doing work. This may significantly reduce the total exposure level over the working period, helping to minimize your vibration exposure risk.

- ALWAYS use sharp and undamaged bits, 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.

# OPERATING INSTRUCTIONS

## Intended Use

This impact driver is intended for percussive tightening and loosening of nuts, screws and other fixings.

The tool must not be modified or used for any other purposes than the ones described in these instructions.

## Battery

### NOTE

Make sure the ON/OFF Trigger (2) is not operated when inserting or removing the battery. Use only JCB batteries: 21-20LI, 21-30LI, 21-40LI, 21-50LI.

- **Do not use excessive force when inserting the JCB battery in the power tool.** An incorrectly connected battery can damage the battery terminals or the battery socket on the power tool.
- Use the button (10) on the battery to check the charging status; 4 red LEDs indicates fully charged, where 1 indicates low battery charge status.

## Charging The Battery



### WARNING!

After charging for the first time, ensure the battery is completely discharged before placing on charge again. Repeat this charging and discharging cycle 4 to 5 times to ensure battery is correctly conditioned.

- Place the battery charger on a level and stable surface. Plug the charger into a suitable power point.

- Connect the battery to the charger so that it clicks into place.
- Refer to the Battery Charge Level table below for battery charger status as indicated by LED lights.
- Unplug the charger from the power point prior to removing the battery from the charger.

## Battery Charge Level

| Red LED                                                                           | Green LED                                                                         | Battery Charge Status                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  |                                                                                   | Charger is connected to mains power                                   |
|  |  | Connected battery is charging                                         |
|                                                                                   |  | Connected battery is fully charged                                    |
|  |  | Connected battery has a charging fault                                |
|  |                                                                                   | Charger is outside correct operating temperature range (<0°C / >40°C) |

If the LEDs on the charger do not come on when charging:

- Check that the charger's mains plug is properly inserted into the power point.
- Check that the battery is correctly inserted in the charger.

## Connecting the battery

- Connect the battery to the battery socket on the power tool so that it clicks into place.

## Removing the battery

- Press the battery release button (6) and remove the battery from the power tool.

## Replacing Bits

### **WARNING!**

Tool accessories can be very sharp and can become very hot during use - risk of personal injury.

### **WARNING!**

High torque tool, use with care.

**Do not fit standard 25mm long hex bits directly into the chuck, use a hex bit tool holder.**

- Place the tool on a stable surface, for example a work bench.
- Insert a suitable hex bit accessory into a hex bit tool holder.
- Pull the retaining collar (1B) outwards and insert the hex bit tool holder into the bit holder chuck (1A).
- Release the retaining collar.
- Check that the hex bit tool holder is correctly located and locked into the bit holder chuck.

## ON/OFF Trigger

- To start the impact drill, gradually depress the (variable speed) ON/OFF Trigger (2).
- The further the ON/OFF Trigger is depressed the higher the speed of the impact driver.
- Release the ON/OFF Trigger to stop the tool.

### **WARNING!**

Before engaging the ON/OFF Variable Speed Trigger (2), check that the hex bit tool holder is correctly fitted in the bit holder chuck (1A).

## Chuck Direction Selector Switch (3)

### **WARNING!**

Only use the direction selector switch when the impact driver is stopped and the chuck is not rotating. Otherwise the impact driver can be damaged.

- Use the Direction Selector Switch to choose either clockwise or anti-clockwise rotation of the chuck.
- Press the Direction Selector Switch (with the arrows facing towards the chuck) inwards to select clockwise rotation of the chuck (i.e. screwing in).
- Press the Direction Selector Switch (with the arrows facing away from the chuck) inwards to select anti-clockwise rotation of the chuck (i.e. un-screwing).
- When the Direction Selector Switch is set to the centre position, the ON/OFF Trigger is automatically locked and cannot be operated.
- **Remember to set the Direction Selector Switch to the central position when you have finished using the impact driver, in order to prevent accidental starting when picking up the impact driver for further use.**

## Use

- Hold the impact driver firmly and put the selected socket/bit into the bit holder.
- Fit the socket/bit on the fixing and hold the impact driver firmly pressed against it, so that the socket/bit does not slip.

To tighten fixings:

- Set the rotation selector switch to clockwise rotation.



- Press the ON/OFF Trigger to start tightening.

To loosen fixings:

- Set the rotation selector switch to anticlockwise rotation.
- Press the ON/OFF Trigger to start loosening.

#### **NOTE**

When the fixing does not resist the action of the impact driver it works like a normal screwdriver. When the fixing resists, the percussion function automatically commence.

#### **NOTE**

The tightening torque varies according to a wide range of different factors. For critical applications, the torque can be checked with a torque wrench after initial tightening with the impact driver.

## **AUTOMATIC LED LIGHT**

- The impact driver is fitted with an LED working light to assist the user during operation.
- The LED light will illuminate immediately the ON/OFF Trigger is pressed.
- The LED light will automatically extinguish several seconds after the ON/OFF Trigger is released"
- Do not look directly at the LED.

## **Overload protection**

- When the power tool is overloaded (abnormal high current), the integral electronic control system will automatically protect the motor by switching off the power supply.
- Release the ON/OFF Trigger and wait one or two seconds for the electronics to reset, then restart the power tool.

## **Speed and Torque Settings**

- The impact wrench is fitted with a Settings Panel (7) where the torque and speed can be adjusted as per the requirements of use. The MAX breakaway button can only be used in reverse. Using the direction selector to put the machine into reverse and then press the MAX breakaway button. The light with the reverse arrow should illuminate in red.



## Maintenance

### **WARNING!**

Switch off the power tool and disconnect the power (remove battery/unplug) before cleaning and maintenance. This helps avoid the risk of electric shocks and accidental starting.

- Wipe the power tool with a dry or damp cloth. **Do not use a wet cloth. Do not use detergent that contains solvent or corrosive, abrasive additives.** This risks damaging the surfaces of the tool.
- Clear the power tool vents and the bit holder chuck of dust and dirt after each use. **Do not clean ventilation holes by inserting sharp objects in them, such as screwdrivers and other similar objects.**
- Stubborn contamination in areas hard to access can be removed with compressed air (max 3. bar).
- Regularly check all fasteners, screws and bolts to make sure that they are tight. Tighten any loose screws immediately or serious injury could occur.

### **WARNING!**

Never open the power tool. The power tool has no internal parts that the user can service or repair. Never try to repair the tool yourself. Take to an authorised service centre.

## Power tool lubrication

- JCB power tools are properly lubricated in the factory and are ready for use.

## Repairs and servicing

- Power tools should be subject to periodic preventative maintenance to ensure continued safe and reliable operation.
- If the power tool requires servicing or repair (eg loss of power) do not continue to operate the power tool.
- Please return the power tool to an authorized JCB service agent or repair centre for service and repair using factory supplied identical replacement parts.

## Transport and Storage

- If the power tool will remain unused for any length of time, it should be stored in the original packaging.
- Store the power tool in a dry, frost-free, well ventilated place with a temperature of no more than 40°C.
- Keep all tools out of the reach of children.
- Always switch off the power tool and disconnect it from the power supply (remove the battery/unplug the power cord) before transport.
- Always carry the power tool using the purpose-designed handle.
- Ensure that the power tool is not at risk of tipping over or exposed to excessive vibration and shocks during transport, especially if the power tool will be transported by car or other vehicle.



## **WARRANTY STATEMENT**

Proof of purchase will be required before you make a warranty claim. Full warranty terms and conditions are available from your local distributor, they can be found on the JCB Tools website:

**[www.jcb-tools.com](http://www.jcb-tools.com)**

**FOR ANY MACHINE SOLD OUTSIDE THE UK, PLEASE CONTACT THE VENDOR FROM WHOM YOU PURCHASED THE MACHINE, AND/OR YOUR LOCAL JCB TOOLS DISTRIBUTOR**

## **RETURNING YOUR PRODUCT**

If you are returning your product, please contact the dealer for their returns policy.



