

# Clarke®



## CORDLESS IMPACT WRENCH

MODEL NO: CIR184LiP

PART NO: 4500619

## OPERATING & MAINTENANCE INSTRUCTIONS



Li-ion

UK  
CA | CE

ORIGINAL INSTRUCTIONS

DL1123

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## **INTRODUCTION**

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Thank you for purchasing this CLARKE Impact Wrench.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

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## **GUARANTEE**

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This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

## PRODUCT OVERVIEW



The CIR184LIP is a professional, cordless impact wrench which is rechargeable using the mains power adaptor. The key design features are shown above.

Upon receipt, check the components against the following list. Any damage or deficiency should be reported to your CLARKE dealer immediately.

- 18V Impact Wrench with battery pack (4000 mAh) fitted
- Battery-charging unit (not shown)
- Spare battery pack (4000 mAh) (not shown)

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# SAFETY PRECAUTIONS

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## WORK ENVIRONMENT

1. Keep the work area clean and tidy and free from trip hazards.
2. **DO NOT** wear loose clothing or jewellery. Tie long hair out of the way.
3. If wearing gloves, make sure that there is no frayed material that could catch in rotating parts.
4. **DO NOT** use in damp or wet conditions. Keep the work area well lit. **DO NOT** use where a risk of fire or explosion is present.
5. Although the wrench may be used outdoors, **DO NOT** leave it exposed to the elements. **AVOID** direct sunlight, direct heat, rain/moisture etc.
6. **ALWAYS** keep body and clothing dry. **NEVER** work in damp area without adequate insulation against electric shock.
7. **ALWAYS** store this product in a secure place out of reach of children or untrained users.
8. **ALWAYS** keep equipment dry, especially the battery & battery charger.
9. **NEVER** over-reach. Keep proper footing and balance at all times and adopt a comfortable, well balanced working position for ongoing work.

## GENERAL USE

1. This product vibrates during use. Vibration may be harmful to your hands or arms. Stop using the wrench if discomfort, a tingling feeling or pain occurs and seek medical advice before resuming use.
2. **ALWAYS** use ear defenders for prolonged work. Exposure to high noise levels can cause permanent hearing problems.
3. **ALWAYS** wear impact resistant eye protection in case of flying projectiles.
4. **ALWAYS** stay alert and use common sense - **DO NOT** use this product when you are tired or under the influence of alcohol or medication.
5. **ALWAYS** ensure the workpiece is firmly secured leaving both hands free to control the wrench. Hold the impact wrench correctly and be ready to control sudden movements.
6. **ALWAYS** check for any damage or condition that could affect the wrench's operation. Any damaged part should be properly repaired.
7. **NEVER** force or misuse the wrench. It will do a better and safer job at the rate for which it was designed.
8. **NEVER** use the wrench if it is defective / operating abnormally.

9. **NEVER** carry the wrench with your finger on the trigger.
10. **NEVER** abuse the mains cable of the battery charger. Never yank the cable to disconnect it from the socket. Keep the cable away from sharp edges/hot surfaces.
11. **NEVER** use this wrench for any purpose other than described in this booklet.
12. **NEVER** carry out any alterations or modifications to this product.
13. **NEVER** wipe the wrench clean with solvents. Wipe plastic parts with a soft cloth, slightly dampened with soapy water.
14. **NEVER** attempt any repairs yourself. If you have a problem with this product contact your local CLARKE dealer.
15. **ALWAYS** use an approved cable extension suitable for the power rating of the battery charger (see specifications), the conductor size should also be at least the same size or larger than that on the charger. When using a cable reel, always unwind the cable completely.

## **IMPACT WRENCH SAFETY INSTRUCTIONS**

1. Use only impact wrench sockets....**DO NOT** use standard sockets which could shatter and cause injury.
2. **ALWAYS** finish tightening nuts with a torque wrench to the correct torque as recommended by the vehicle manufacturer.
3. **ALWAYS** avoid excessive use of the wrench. When tightening a nut or bolt, always avoid over tightening.
4. **ALWAYS** ensure the wrench has stopped before putting it down after use.
5. **ALWAYS** set the forward/reverse selection bar to neutral when changing sockets or when the wrench is not required for immediate use. This will avoid accidental starting.

## **LITHIUM-ION BATTERY USE AND CARE**




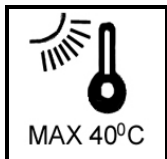
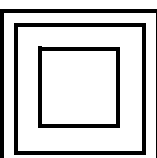



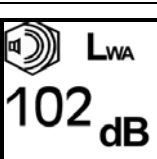
1. Only use the wrench with the battery pack supplied. Use of any another battery pack may create a risk of injury and fire.
2. **DO NOT** charge the battery when the room temperature is below 10°C. **DO NOT** store the battery where the temperature may exceed 40°C (104°F)
3. When the battery pack is not in use, keep it away from metal objects that could make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
4. Dispose of spent batteries correctly as they contain Lithium-ion. They are recyclable and should be taken to a recycling centre to be disposed of as stipulated by local regulations. **DO NOT** incinerated battery as it may

explode when exposed to fire. **DO NOT** attempt to open, disassemble, modify or service a battery pack.

5. Handle batteries so as to avoid damage, fire, corrosion or personal injury.
6. **NEVER** crush, puncture, short external contacts or dispose of in fire or water.
7. **NEVER** attempt recharging the battery by means of an engine generator or a DC power source.
8. **NEVER** attempt to disassemble the battery.
9. **NEVER** make direct contact with a leaking battery. If you come into contact with battery liquid take the following immediate action:
  - Wash affected area immediately with plenty of water, then seek immediate medical attention.

## SAFETY SYMBOLS

The full technical specification of the battery charger is printed on a label on the charger. The meanings of the markings and symbols are shown below

	Read instruction manual before use		Suitable for indoor use only
	Wear eye protection when using this product.		Maximum Temperature (battery pack only)
	Class 2 Double Insulated		Do not Incinerate (battery pack only)
	WEEE directive compliance required for Lithium-Ion batteries.		Do not immerse in water
	Caution: loud noise when in operation, wear ear protection.		

**Please keep these instructions in a safe place for future reference.**

# ELECTRICAL CONNECTIONS



**WARNING! READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.**

The battery charger for this product is provided with a standard 3 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

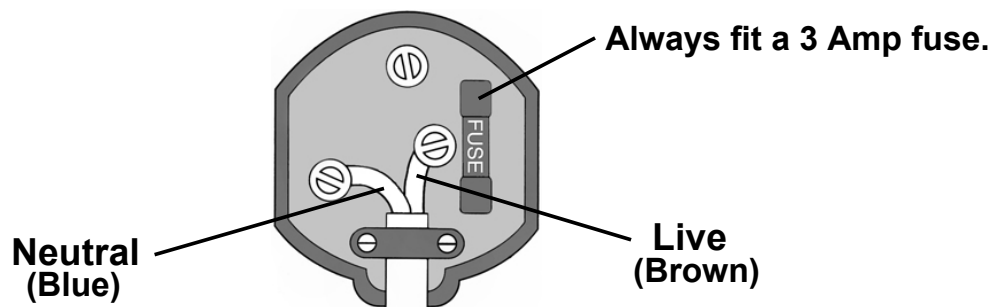


**WARNING! THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE: BLUE = NEUTRAL BROWN = LIVE**

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.

**Plug must be BS1363/A approved.**



**Ensure that the outer sheath of the cable is firmly held by the clamp**

**We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)**

If in any doubt, consult a qualified electrician. **DO NOT** attempt any repairs yourself.

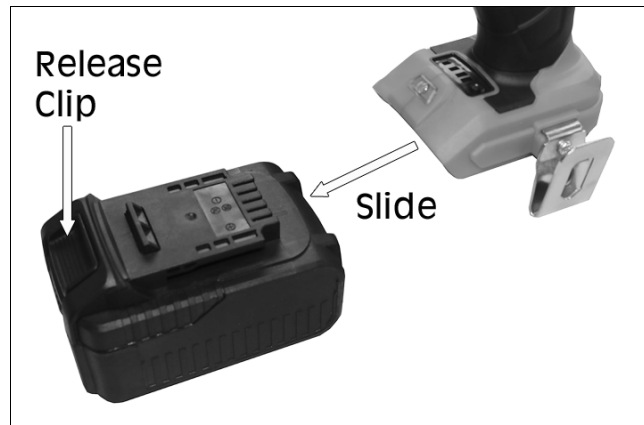


**This symbol indicates that this is a Class II product, and does not require an earth connection.**

# BATTERY CHARGING

The battery will have been shipped in a low charge state and will require charging before use.

1. Press the battery release clip on the front of the battery pack and slide the battery pack from the impact wrench.



2. Plug the charger into a 230V power supply and switch ON.

- The green POWER ON light will illuminate to show the unit is connected to the mains supply.

3. Insert the battery pack into the battery charger, noting that it will only fit one way.



- The red light will flash to indicate the battery is starting to charge.
- When charging is complete (typically after about 1.5 hours), the green light will come on and the red light will go off. The battery pack can be considered charged and be removed. Charging time will be dependant upon the initial state of the battery.

- When charging a new battery pack, it may initially not accept full charge. This is common & does not indicate a fault. It can be recharged fully after it has been discharged a couple of times.
- If charging does not take place, ensure all connections are clean.

4. After charging, switch off and unplug the charger from the power supply.

5. Remove the battery pack from the charger and slide it back onto the impact wrench until it clips into place.

The battery pack should slide in easily. If it is not to be fitted immediately, ensure that the metal contacts are protected to avoid the possibility of a short circuit which would cause battery damage. For maximum battery life, we recommend that you maintain the battery in a fully charged state.



## BATTERY CHARGING LIGHTS & FAULT CODES

When the battery is fully charged, the battery charger will stop charging and switch to standby. There are no restrictions on how long a battery can remain in the charger, though it is recommended to remove the battery from the charger once the battery is fully charged. The following charts will help you identify the charging sequence and troubleshooting any fault codes.

Charger Status	Light Status	
	Red Light	Green Light
Power On, Ready State	Off	On
Charging	On	Off
Finished Charging	Off	On
Battery Temperature is too High	Off	Flash
Battery Failure	Flash	Off

Troubleshooting the battery and the battery charger during charging:

Light Display	Possible Fault	Possible Action
Green Light Flashing	The battery is ok, but there is a temperature deviation	Charge the battery in surroundings where the temperature is between 5°C (41°F) and 40°C (104°F). Wait for the battery to cool down.
Red Light Flashing	The voltage of the battery is too low. Circuit inside battery is open	Contact CLARKE service department for new battery.

## CHECKING THE BATTERY STATUS

To check the battery status, press the battery status button (1) on the end of the battery. The following blue lights will show how much power is in the battery.

- Lights 2, 3 & 4 showing: 100% power
- Lights 2 & 3 showing: 66% power
- Light 2 showing: 33% power



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## OPERATION

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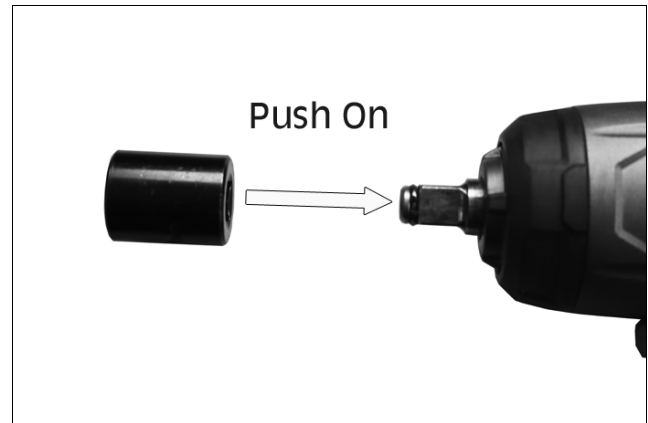


CAUTION: MAKE SURE THAT THE IMPACT WRENCH IS LOCKED USING THE SELECTOR BAR BEFORE ATTACHING OR REMOVING A SOCKET. ALWAYS TAKE CARE TO USE THE CORRECT SIZE SOCKET FOR BOLTS AND NUTS. AN INCORRECT SOCKET WILL CAUSE DAMAGE TO THE BOLT OR NUT.

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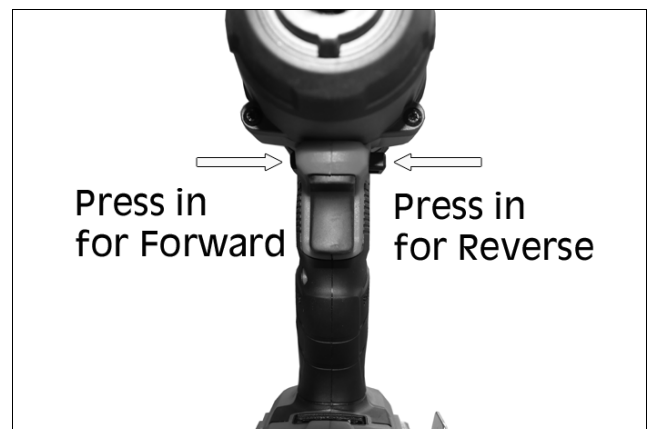
### FITTING A SOCKET

1. Make sure the forward/reverse selector bar is in the middle locked position.
2. Align the chosen socket and simply push it onto the anvil. Use only ½" square drive impact sockets as listed on page 14.



### FORWARD/REVERSE SELECTION

1. Select the direction of operation by pushing the selector bar in the appropriate direction.
  - The direction of rotation is shown on the end face of the selector bar.
  - When the selector bar is in the central position the trigger is locked and the trigger will not activate the impact wrench.



2. Always check the direction of rotation before operation by squeezing the trigger to start the impact wrench. Release the trigger to stop.

## SPEED SELECTION

1. Three running speeds are available by clicking the speed selection button (5) shown, a green light will show which speed has been selected. The speeds are as follows:

- 1: 1000 RPM
- 2: 1500 PRM
- 3: 2100 RPM
- 4: On Indicator Light
- 5: Speed Selection Button



## LOOSENING A NUT



**WARNING: ENSURE THAT THE CORRECT SOCKET IS BEING USED FOR THE NUTS ON YOUR PARTICULAR VEHICLE. AN INCORRECT SOCKET SIZE WILL DAMAGE THE HEADS OF THE BOLTS/NUTS.**

1. Fit the appropriate socket to the 1/2" square drive of the impact wrench.
2. With the FORWARD/REVERSE switchbar in the REVERSE running position, hold the wrench firmly and pull the trigger. The nut will be impacted repeatedly until it is loosened.

**NOTE:** As the battery becomes discharged the power available will drop. The battery will cut out when a low state of charge is reached. This is normal and is a design feature to protect the battery from deep discharge. If this occurs, re-charge the battery as described on page 8.

3. After use, recharge the battery pack as shown on page 8. Avoid leaving the batteries in a discharged state.

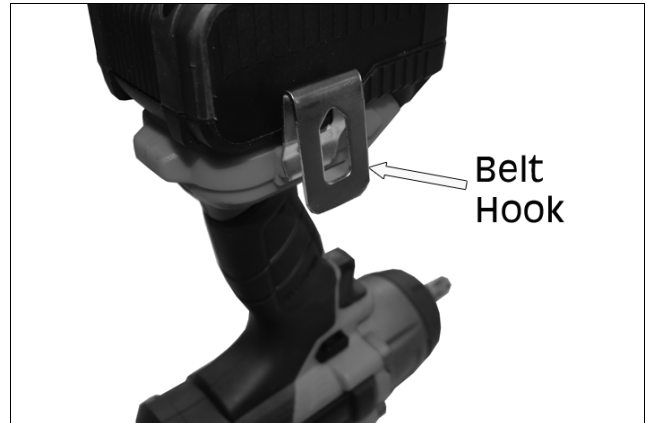
## TIGHTENING A NUT

1. Start the nut by hand, ensuring it is not cross threaded, then with the appropriate socket fitted to the impact wrench, place it on the nut.
2. With the FORWARD/REVERSE selector bar in the forward running position, and holding the wrench firmly, pull the trigger.
3. Install each nut in turn until it is 'nipped' up only - **DO NOT** tighten fully. When all nuts are secure, tighten further but take care to prevent over-tightening.

4. ALWAYS finish tightening with a torque wrench to the manufacturers recommended torque.

## BELT HOOK

The impact wrench is provided with a belt hook. This can be fitted to either side of the main housing, adjacent to the battery and is retained by a single screw.




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## TROUBLESHOOTING

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If the following does not solve your problem contact the CLARKE service dept.

PROBLEM	CAUSE	SOLUTION
Unit will not start	Battery pack not installed properly	Check battery pack installation
	Battery pack not charged	Check battery pack charging requirements
	Internal components too hot	Allow the tool to cool down
Battery pack will not charge	Battery pack not inserted into charger	Insert battery pack into charger until the light illuminates
	Charger not plugged in to supply	Plug charger into a working outlet
	Surrounding air temperature too hot or too cold	Move battery pack to a surrounding air temperature is between 5°C (41°F) and 40°C (104°F)

PROBLEM	CAUSE	SOLUTION
Unit shuts off abruptly	Battery pack has reached its maximum thermal limit	Allow battery pack to cool down
	Out of charge. (To maximize the life of the battery pack it is designed to shutoff abruptly when the charge is depleted)	Place battery on charge

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## MAINTENANCE

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All bearings etc. in this wrench are lubricated with a sufficient amount of high grade lubricant for the machines lifetime under normal operating conditions, therefore no further lubrication is required.

Refer to your CLARKE dealer if internal maintenance is required.

Check the battery charger power cable to ensure it is free from cracks, bare wires etc.

Avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from the various types of commercial solvents. Keep the unit clean by wiping with a dry cloth. **DO NOT** use solvents as a cleaning agent.

Your CLARKE impact wrench has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

Always store the wrench and its charger in the case supplied. Store in a clean, dry place, out of reach of children when not in use.

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## ENVIRONMENTAL PROTECTION

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**DO NOT** dispose of this product with general household waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE).

Through the purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

## **BATTERY DISPOSAL**

Dispose of old batteries in accordance with local authority regulations. **DO NOT** incinerate or crush, as this will increase the risk of explosion and contamination. If the battery contents come into contact with skin or the eyes, rinse with clean water for several minutes and seek medical advice immediately afterwards.

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## **ACCESSORIES**

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A wide range of impact wrench accessories is available from your nearest CLARKE dealer, for further information, contact your nearest dealer, or telephone CLARKE International Sales department on 01992 565300.

Suitable impact wrench compatible socket sets include the following:

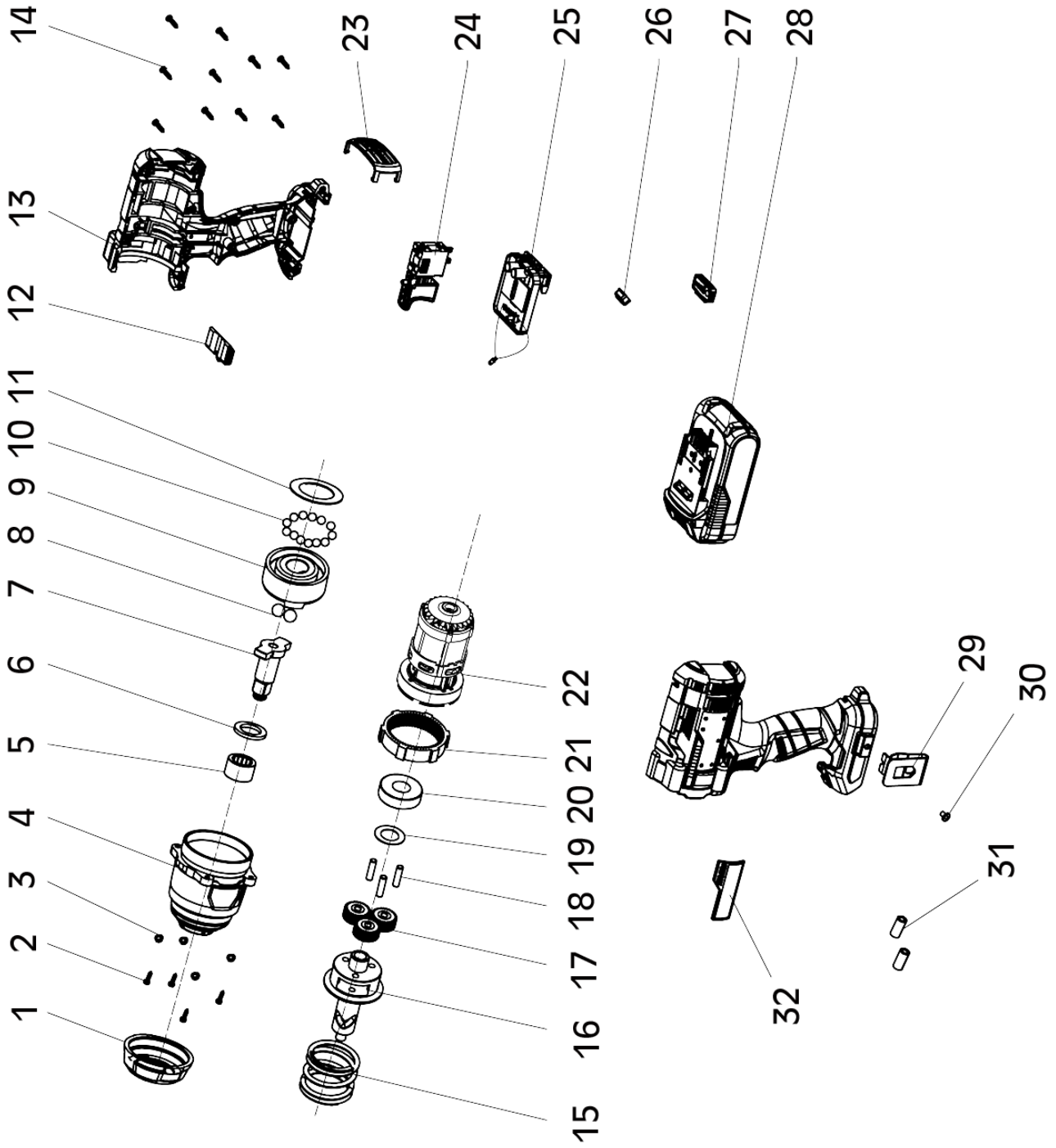
<b>Part No</b>	<b>Model No</b>	<b>Description</b>
3110875	CIS12/10	10 piece 1/2"square drive (metric)
1800311	CIS12/17B	16 piece 1/2"square drive (metric/AF)
1800305	CIS9/32	32 piece 3/8" & 1/2"square drive (metric/AF)
1700616	PRO216	4 piece 1/2"square drive spline set
1800356	CIS12/6HB	6 piece 1/2"square drive hex impact sockets metric
1800361	CIS12/7SB	7 piece 1/2"square drive TRX Star Impact Bits
1700584	PRO184	3 piece 1/2"square drive Alloy Wheel Thin Wall Set

## SPECIFICATIONS

FEATURE	SPECIFICATION
Weight	2.62 kg
Dimensions (L x W x H)	212 x 214 x 74 mm
Size of spindle (Drive Size)	1/2" (12.5mm)
Motor Speed	3300 bpm (impact rate)
Max rated tightening torque	400 Nm
Impacts/minute (No Load Speed)	Low = 1000 rpm Medium = 1500 rpm High = 2100 rpm
Duty Cycle	S1 (continuous)
IP Rating	IP20
Charger insulation class	II
Input voltage	230V/50 Hz
Output voltage	18V DC
Battery Type	Lithium-Ion
Charging Time	Approx. 1.5 hour with 4Ah battery
Nominal charge/ discharge current	4A/35A
Charger Fuse Rating	3 Amp
Sound pressure level	90.9 dB LpA
Sound power level	102 dB LWA
Uncertainty Factor (K)	3 m/s <sup>2</sup>
Vibration Level	9.4 m/s <sup>2</sup>
Uncertainty Factor (K)	1.5 m/s <sup>2</sup>

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

# COMPONENT PARTS LIST





No	Description
1	Aluminum Shield
2	Screw
3	Gasket
4	Aluminum Head
5	Anvil
6	T Type Anvil Washer
7	T Type Bearing
8	Steel Ball
9	Impact Block
10	Steel ball
11	Impact Block Washer
12	Forward/Reverse Switch
13	Shell
14	Screw
15	Spring
16	Anvil

No	Description
17	Gearing
18	Gearing Pins
19	Gear Pin Gasket
20	Bearing
21	Collar
22	Motor
23	Back Cover
24	Activation Switch
25	PCB Board
26	Light Cover
27	Battery Indicator
28	Battery
29	Belt Hook
30	Screw
31	Heat Shrink Tubing
32	Nameplate

# DECLARATION OF CONFORMITY - UKCA



Hemnall Street, Epping, Essex, CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

*The Batteries and Accumulators (Placing on the Market) Regulations 2008*

*The Electromagnetic Compatibility Regulations 2016*

*The Electrical Equipment (Safety) Regulations 2016*

*The Supply of Machinery (Safety) Regulations 2008*

*The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012*

The following standards have been applied to the product(s):

*EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019, EN 55014-1:2017, EN 62841-2-2:2014,*

*EN 60335-2-29:2004+A2:2010+A11:2018, EN 61000-3-3:2013+A1:2019, EN 62233:2008, EN 55014-2:2015,*

*EN 55014-1:2017+A11:2020, EN IEC 61000-3-2:2019, EN 62841-1:2015, IEC 62321-4:2013+AMD1:2017,*

*IEC 62321-1:2013, IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017,*

*IEC 62321-4:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017, ISO 17075-1:2017*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The UKCA mark was first applied in: 2023

**Product Description:** Impact Wrench  
**Model Number(s):** CIR184LIP  
**Serial/Batch Number:** Refer to product/packaging label  
**Date of Issue:** 05/10/2023  
**Signed:**

J.A Clarke

Director

# DECLARATION OF CONFORMITY - CE



**Clarke**<sup>®</sup>  
**INTERNATIONAL**

Fitzwilliam Hall, Fitzwilliam Place, Dublin 2

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following legislation:

2006/66/EC	Battery Directive
2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
2006/42/EC	Machinery Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS) Directive

The following standards have been applied to the product(s):

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019, EN 55014-1:2017, EN 62841-2-2:2014, EN 60335-2-29:2004+A2:2010+A11:2018, EN 61000-3-3:2013+A1:2019, EN 62233:2008, EN 55014-2:2015, EN 55014-1:2017+A11:2020, EN IEC 61000-3-2:2019, EN 62841-1:2015, IEC 62321-4:2013+AMD1:2017, IEC 62321-1:2013, IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-4:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-8:2017, ISO 17075-1:2017

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2023

**Product Description:** Impact Wrench  
**Model Number(s):** CIR184LIP  
**Serial/Batch Number:** Refer to product/packaging label  
**Date of Issue:** 05/10/2023  
**Signed:**

J.A Clarke

Director

# A SELECTION FROM THE VAST RANGE OF

# Clarke®

## QUALITY PRODUCTS



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## PARTS & SERVICE: 0208 988 7400

**Parts Enquiries**  
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[Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

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