



18V LI-ION 1/2IN. IMPACT WRENCH

OWNER'S MANUAL



WARNING:

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 46127

Thank you very much for choosing an Ironton product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

INTENDED USE

With a durable, solid design, this impact wrench is built to last. The forward/ reverse lever enables you to securely fasten or remove sockets.

TECHNICAL SPECIFICATIONS

No Load Speed	0–2200 RPM
Max. Tightening Torque:	207 ft.-lbs.
Input Voltage	120V, 60Hz
Output Voltage	DC-21V
Battery Type:	Lithium-ion
Battery Pack Capacity:	1.3Amp/Hr
Impact Power:	0–3300 IPM

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this Impact Wrench until they have read this manual and have developed a thorough understanding of how the Impact Wrench works.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY CONSIDERATIONS



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 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 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 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 jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry 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. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- e. 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. 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.

BATTERY AND CHARGER SAFETY WARNINGS

THIS MANUAL CONTAINS IMPORTANT SAFETY AND OPERATING INSTRUCTIONS FOR YOUR BATTERY CHARGER.

1. Before using the charger read all instructions and cautionary markings on the charger, battery pack and the product using the battery pack.
2. This charger is not intended for any uses other than charging rechargeable batteries. Any other use may result in risk of fire, electric shock or electrocution.
3. Do not place any object on top of the charger or place the charger on a soft surface that may result in excessive internal heat. Place the charger in a position away from any heat source.
4. To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
5. Make sure the cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
6. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in the risk of fire, electric shock or electrocution.
7. Do not operate the charger if it has received a sharp blow, been dropped or otherwise damaged in any way. Have it checked by an electrician or power tool repairer.

8. Do not disassemble charger. Take it to an electrician or power tool repairer when service or repair is required. Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
9. To reduce risk of electric shock, unplug the charger from the outlet before attempting any cleaning. Removing the battery pack will not reduce this risk.
10. Never attempt to connect 2 chargers together.
11. DO NOT store or use the tool and battery pack in locations where the temperature may reach or exceed 104°F (such as inside sheds or metal buildings in summer).
12. The charger is designed to operate on standard household electrical power (120 volts). Do not attempt to use it on any other voltage!
13. The battery pack is not fully charged out of the carton. First read the safety instructions and then follow the charging notes and procedures.
14. The longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 64-75°F. Do not charge the battery pack in an air temperature below 50°F or above 104°F. This is important and will prevent damage to the battery pack.
15. Do not incinerate the battery pack even if it is seriously damaged or is completely worn out. The battery can explode in a fire.
16. Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, immediately discontinue use and do not recharge.
17. During charging, the battery must be placed in a well-ventilated area.

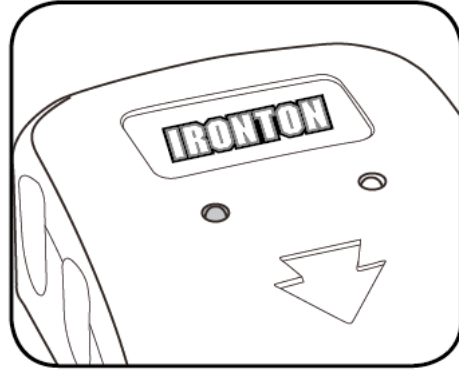
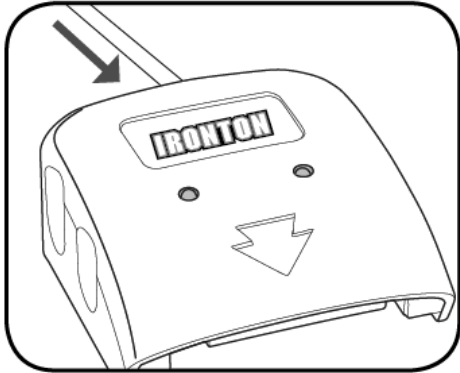
IMPACT WRENCH USE AND CARE

- **Do not modify the Impact Wrench in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the Impact Wrench was designed.
- **Always check of damaged or worn out parts before using the Impact Wrench.** Broken parts will affect the Impact Wrench operation. Replace or repair damaged or worn parts immediately.
- **Store idle Impact Wrench.** When Impact Wrench is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.
- ALWAYS use the impact wrench in the manner and for the functions described in these instructions.
- ALWAYS ensure the machine is not moving with the switchbar in the center position when changing sockets etc. Use only Impact Wrench sockets; DO NOT use standard sockets.
- ALWAYS finish tightening wheel nuts or engine parts with a torque wrench or suitable spanner to the correct torque as recommended by the vehicle manufacturer.
- ALWAYS avoid excessive use of the wrench. When tightening a nut or bolt, never allow the wrench to impact more than 8 times - to avoid over tightening — 3 to 4 impacts is normally sufficient.
- ALWAYS use outdoor extension leads if working outdoors. 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.

OPERATION

Battery Charging

1. Plug charging jack into charging cradle. Both lights will illuminate when connected.
2. Slide cradle onto the battery. Only the red light will be illuminated when properly connected and charging.

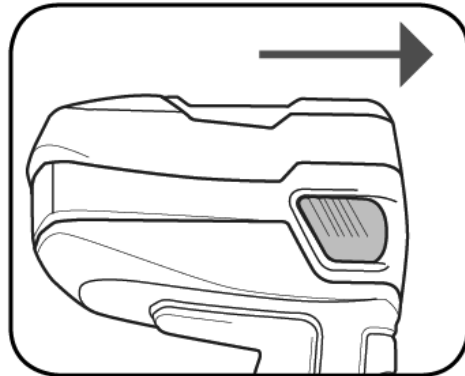
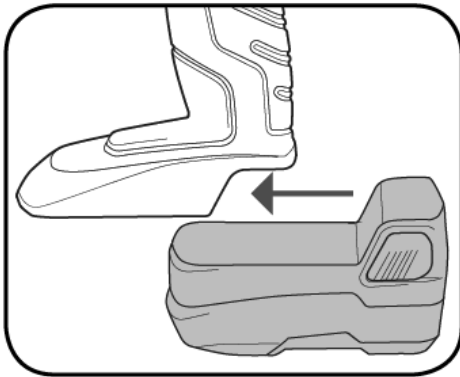


Note: Once fully charged, both the red and green lights will illuminate.

Installing and Removing

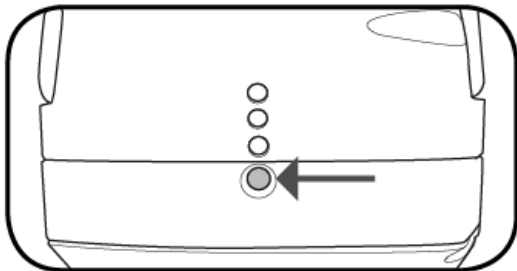
Slide the battery into the impact wrench base until it clicks into place.

Hold down the battery release buttons and slide the battery out.

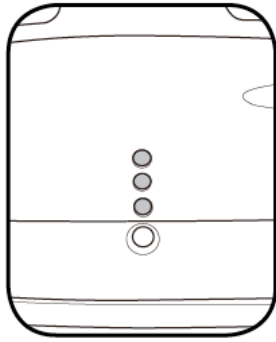


Battery Indicator

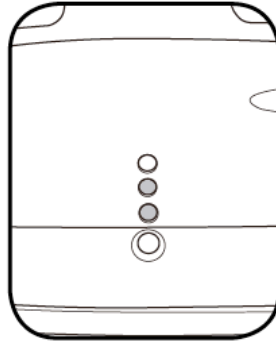
1. Depress the battery indicator button.



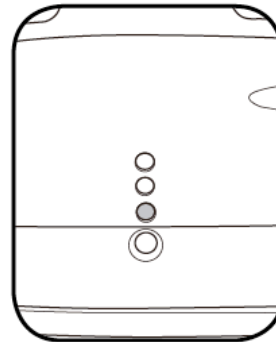
2. Observe which lights illuminate for a reading on your battery's charge.



Full Charge



50% Charge



Low Charge

INSTALLING A SOCKET



CAUTION! ALWAYS BE SURE THAT THE TOOL IS SWITCHED OFF 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.

1. Align the chosen socket and simply push it onto the anvil. Use only 6" square drive impact sockets supplied.
2. Squeeze the trigger to start the wrench. Release the trigger to stop.
3. To run the impact wrench in reverse, push the switch-bar through the drive unit. The direction of rotation is shown on the end face of the switch-bar.
 - The 3-position switch bar controls forward or reverse direction of rotation. Select the appropriate position **ONLY** when the machine is **STATIONARY**. Do not move the switch bar when the spindle is moving. When the switch-bar is in the central position the trigger is locked.
4. Always check the direction of rotation before operation.
5. Turn off the machine as soon as the impact sound is heard.

Note: As the battery becomes discharged, the power available will drop.

Operating the machine at low speed will cause a reduction in torque.

LOOSENING A WHEEL NUT

1. Remove any wheel trim, before selecting the appropriate socket and placing firmly on the square drive of the wrench.
2. With the FORWARD/NEUTRAL/REVERSE switch bar in the REVERSE running position, and holding the wrench firmly in **BOTH HANDS**, pull the trigger. The nut will be impacted repeatedly until it is loosened. **IMPORTANT!** Release the trigger immediately the nut begins to loosen.
3. Jack up the vehicle according to the vehicles handbook so that the wheel is clear of the ground, then proceed to fully undo the wheel nuts.



ENSURE THAT THE CORRECT SOCKET IS BEING USED FOR THE NUTS ON YOUR PARTICULAR VEHICLE. AN INCORRECT SOCKET SIZE IS LIKELY TO DAMAGE THE HEADS OF THE BOLTS/NUTS.

TIGHTENING A NUT

- 1 Start the nut by hand, ensuring it is not cross threaded, then with the appropriate socket installed on the wrench, place it on the nut.
2. With the FORWARD/NEUTRAL/REVERSE switch-bar in the clockwise (FORWARD) running position, and holding the wrench firmly in BOTH HANDS, pull the trigger.
3. Run each nut up in turn until it is 'nipped' up only - do not tighten. When all nuts are nipped up, tighten progressively by pulling the trigger fully and allowing the action to operate for 3 to 4 impacts only to prevent overtightening.
4. ALWAYS finish tightening with a torque wrench. The weight of the vehicle will need to be placed on the wheel to prevent it from rotating while the nuts are tightened. Ensure the final torque applied to the nuts meets the vehicle manufacturer's recommendations.

VARIABLE SPEED

You can vary the spindle rotation speed by modulating finger pressure on the trigger.

MAINTENANCE

- **Maintain your Impact Wrench.** It is recommended that the general condition of any Impact Wrench be examined before it is used. Keep your Impact Wrench in good repair by adopting a program of conscientious repair and maintenance. Have necessary repairs made by qualified service personnel.
- When not in use, the impact driver should be stored in a dry, frost free location, keep out of children's reach.
- Keep ventilation slots of the impact driver clean at all times and prevent anything from entering.
- If the housing of the Impact Wrench requires cleaning, do not use solvents. Use of a cloth only is recommended.
- Blow out the ventilation slots with compressed air periodically.

TROUBLESHOOTING

LED lights do not illuminate on charger

Check the charging adaptor is securely plugged into the wall outlet.

Check the battery is firmly connected to the charging cradle.

Check that the charging jack is securely connected to the charging cradle.

The battery has a short run time

Ensure the battery is properly charged. It will take 4-5 charging cycles before the battery reaches optimum charge and run time.

Variable speed trigger is locked

Ensure that the forward / reverse lever is in the correct position; pressed left for forwards direction, pressed right for backwards direction. If it is in between the two settings the variable speed trigger will be locked.

Impact Wrench has cut out during use

Use the battery indicator button to check if the battery has gone flat. If the indicator does not work or indicates that the battery still has charge, it is likely that the battery's thermal voltage protection has

been activated. This can happen when the tool has been used for extended periods or worked hard with large drill bits or accessories.

Place the battery on the charging cradle for 3-5 hours. It will need this time to cool down and for the protection circuits to be reset.

Sparking visible through the housing air vents

A small amount of sparking may be visible through the housing vents. This is normal and does not indicate a problem.

DIAGRAM AND PARTS LIST



NO.	Part Name	QT
1	cross plate tapping screw	4
2	head housing	1
3	O-ring	1
4	shaft sleeve	1
5	gasket	1
6	output shaft	1
7	wrench assembly	1
8	left housing	1
9	left decorative cover	1
10	transparent lampshade	1
11	LED	1
12	positive and negative push rod	1
13	variable speed urgent stop switch	1
14	insert frame	1
15	18V Li-ion battery	1
16	right housing	1
17	right decorative cover	1
18	cross plate tapping screw	8
19	cross plate tapping screw	1

For replacement parts and technical questions, please call **1-800-222-5381**.



WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

WARRANTY

THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

The warranty is only made available by returning the tool to the place of purchase with a confirmed register receipt.

6-MONTH REPLACEMENT WARRANTY

Your IRONTON tool is covered by a 6-month replacement warranty from the date of purchase. Industrial or high-frequency use will void this warranty. The warranty covers faulty parts or workmanship.

WARNING

The following actions will result in the warranty being void.

- If the tool has been operated on a supply voltage other than that specified on the unit.
- If the tool shows signs of damage or defects caused by or resulting from abuse accidents or alterations.
- If the tool has been disassembled or tampered with in any way.

Warranty excludes consumable parts such as brushes, batteries, sanding pads, blades, discs and drill bits.



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