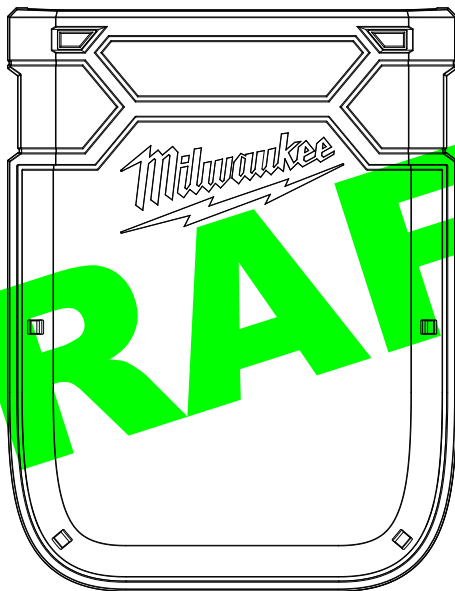




OPERATOR'S MANUAL
MANUEL de L'UTILISATEUR
MANUAL del OPERADOR



Cat. No. / No de Cat.

48-11-2330

HEATED GEAR FLAT PACK BATTERY



WARNING To reduce the risk of injury, user must read and understand operator's manual.

AVERTISSEMENT Afin de réduire le risque de blessures, l'utilisateur doit lire et bien comprendre le manuel.

ADVERTENCIA Para reducir el riesgo de lesiones, el usuario debe leer y entender el manual.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS -

AWARNING **READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

1. **SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for the MILWAUKEE Li-Ion charger and MILWAUKEE Li-Ion batteries.
2. **Before using the battery and charger, read this operator's manual, tool's operator's manual, and all labels on the battery, charger and tool.**
3. **CAUTION** Use only MILWAUKEE Heated Gear with Flat Pack Battery. Do not use counterfeit, aftermarket, or "knockoff" chargers or heated gear accessories. Do not wire a battery to a power supply plug or car cigarette lighter.
4. **Avoid dangerous environments.** Do not charge battery in rain, snow, damp or wet locations. Do not use battery or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing battery, possibly causing fire.
5. **Charge in a well ventilated area.** Do not block charger vents. Keep them clear to allow proper ventilation. Do not allow smoking or open flames near a charging battery. Vented gases may explode.
6. **Maintain charger cord.** When unplugging charger, pull plug rather than cord. Never carry charger by its cord. Keep cord from heat, oil and sharp edges. Make sure cord will not be stepped on, tripped over or subjected to damage or stress. Do not use charger with damaged cord or plug. Have a damaged charger replaced immediately.
7. **Avoid using an extension cord when possible.** When unavoidable, use a properly wired 16 gauge or larger extension cord with pins that are the same number, size and shape as the pins on the charger. Make sure that the extension cord is in good electrical condition.
8. **Charger is rated for 5 Volt DC only.** Charger must be plugged into an appropriate receptacle.
9. **Use only with UL Listed/Certified CLASS 2 Power Supply.** Others may result in a risk of fire, electric shock or personal injury.
10. **Use only recommended attachments.**
11. **Unplug charger when not in use.**
12. **Always unplug charger before cleaning or maintenance.** Do not allow water to flow into AC/DC plug. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.
13. **Do not burn or incinerate batteries.** Batteries may explode. Toxic fumes and materials are created when batteries are burned.
14. **Do not crush, drop, or damage battery. Always securely contain batteries during transport.** Do not use a battery that has received a sharp blow, been dropped, run over, or damaged in any way (e.g., pierced with a nail, hit with a hammer, stepped on, in a vehicle accident). Do not use or charge batteries that appear damaged or swollen, or are not functioning properly.
15. **Do not disassemble batteries or charger.** If it is damaged, take it to a MILWAUKEE service facility.
16. **Battery chemicals cause serious burns.** Never allow contact with skin, eyes, or mouth. If a damaged battery leaks battery chemicals, use rubber or neoprene gloves to dispose of it. If skin is exposed to battery fluids, wash with soap and water and rinse with vinegar. If eyes are exposed to battery chemicals, immediately flush with water for 20 minutes and seek medical attention. Remove and dispose of contaminated clothing.
17. **Do not short circuit.** A short-circuited battery may cause fire, personal injury, and product damage. A battery will short circuit if a metal object makes a connection between the positive and negative contacts on the battery. Do not place a battery near anything that may cause a short circuit, such as coins, keys or nails in your pocket.
18. **Do not allow fluids to flow into battery.** Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit. Do not use batteries that have been exposed to these types of fluids.
19. **Disconnect the battery pack from the heated gear before storing.** Such preventive safety measures reduce the risk of starting the heated gear accidentally.
20. **Before washing, disconnect and remove battery pack from heated gear.**
21. **Store your battery and charger in a cool, dry place.** Do not store battery where temperatures may exceed 120°F (50°C) such as in direct sunlight, a vehicle, or metal building during the summer.
22. **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.



Federal Communications Commission

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the product.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

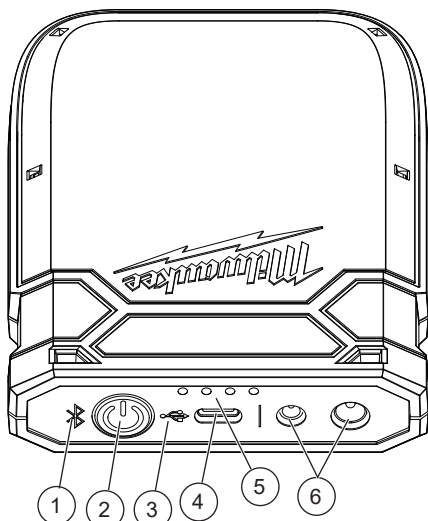
This device complies with part 15 of the FCC Rules and ISED-Canada's license exempt RSS standards. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation.

FCC & IC Radiation Exposure Statement:

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE REFERENCE. FUNCTIONAL DESCRIPTION



1. Bluetooth indicator
2. Power button
3. USB-C indicator
4. USB-C port
5. Fuel gauge
6. Heated gear connectors

SPECIFICATIONS

Cat. No.	48-11-2330
Volts	12 DC
Battery Type	Li-Ion
Input	15 V
Output	3 A
USB Output	5 V
USB Input	2.4 A
Charger Type	
Module/FCC ID	xxxxx/P36-2330
IC	25187-2330
Recommended Ambient Charging Temperature	40°F to 104°F (5°C to 40°C)

SYMBOLOLOGY



Volts



Direct Current



Amps



Backfeed Protected



Properly Recycle Batteries



UL Listing for Canada and U.S.

MILWAUKEE LI-ION BATTERY PACKS

WARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit.

Maintenance and Storage

Do not expose your battery pack or cordless tools to water or rain, or allow them to get wet. This could damage the tool and battery pack. Do not use oil or solvents to clean or lubricate your battery pack. The plastic casing will become brittle and crack, causing a risk of injury.

Store battery packs at room temperature away from moisture. Store batteries upright. Do not store in damp locations where corrosion of terminals may occur. As with other battery pack types, permanent capacity loss can result if the pack is stored for long periods of time at high temperatures (over 120°F). MILWAUKEE Li-Ion battery packs maintain their charge during storage longer than other battery pack types. After about a year of storage, charge the pack as normal.

Transport

Personal transport of Li-Ion battery packs is allowed when done in accordance with these warnings and instructions. The proper classification, packaging, labeling, marking, and documentation requirements for shipping Li-Ion batteries is dependent upon whether the particular batteries are rated greater than or less than 100 Wh. Generally, Li-Ion batteries rated 100 Wh or less are "excepted" from certain Class 9 DG requirements. Always check compliance of Li-Ion battery consignments against the current regulations governing the chosen mode of transport. When in doubt, contact the carrier or other trained Dangerous Goods professional to confirm acceptability. Li-Ion packs are shipped under classification UN 3480 (battery only) or UN 3481 (batteries contained in or packed with equipment).

⚠WARNING To reduce the risk of injury or explosion, never burn or incinerate a battery pack even if it is damaged, dead or completely discharged. When burned, toxic fumes and materials are created.

Disposing of MILWAUKEE Li-Ion Battery Packs

MILWAUKEE Li-Ion battery packs are more environmentally friendly than some other types of power tool battery packs. Always dispose of your battery pack according to federal, state and local regulations. Contact a recycling agency in your area for recycling locations.

Even discharged battery packs contain some energy. Before disposing, use electrical tape to cover the terminals to prevent the battery pack from shorting, which could cause a fire or explosion.

RBRC Battery Recycling Seals

The RBRC™ Battery Recycling Seals (see "Symbology") on your tool batteries indicate that MILWAUKEE has arranged for the recycling of that battery pack with the Rechargeable Battery Recycling Corporation (RBRC). At the end of your battery pack's useful life, return the battery pack to a MILWAUKEE Branch Office/Service Center or the participating retailer nearest you. For more information, visit the RBRC web site at www.rbrc.org.

MILWAUKEE LI-ION CHARGER

⚠WARNING Charge only MILWAUKEE 12V Li-Ion batteries in MILWAUKEE 12V Li-Ion Chargers. Other types of batteries may cause personal injury and damage.

When to Charge the Battery Pack with this MILWAUKEE Charger

MILWAUKEE batteries do not develop a "memory" when charged after only a partial discharge. It is not necessary to run down the battery pack before placing it on the charger.

- Use the fuel gauge to determine when to charge your MILWAUKEE Li-Ion battery pack.
- You can "Top-Off" your battery pack's charge before starting a big job or long day of use.

- The only time it is necessary to charge the MILWAUKEE Li-Ion battery pack is when the battery pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly, allowing you just enough power to finish making a cut, drilling a hole, or driving a fastener. Charge the battery pack as needed.

Charging the Battery Pack

1. Plug your USB-C cable into a power source such as an AC wall adaptor, computer, or car port.
2. Insert the other USB-C end of the cable into the USB-C port in the charger.
3. The fuel gauge light will display the charging status:

LED 1 Pulsing	0-18%
LED 1 Solid, LED 2 Pulsing	18-45%
LED 1-2 Solid, LED 3 Pulsing	45-66%
LED 1-3 Solid, LED 4 Pulsing	66-99%
LED 1-4 Solid	100%

- Charge time depends on capacity of battery pack. Heavily cycled batteries may take longer to charge completely.
- The charger will keep the battery pack fully charged if it is left on the charger.
- If the light indicator does not come on, check that the battery pack is fully seated into the bay. Remove the battery pack and reinsert. If the light indicator still does not come on, remove pack and unplug charger for at least 2 minutes. After 2 minutes, plug charger back in and insert pack. If after these attempts the light indicator still does not come on, contact a MILWAUKEE service facility.
- Lights 1&3 / 2&4 flashing alternately indicates a fault. Turn off the flat pack, then disconnect all cord connections. Reconnect and turn on the flat pack. If the problem persists, take the flat pack charger, and battery pack to a MILWAUKEE service facility.

Maintenance and Storage

Store your charger in a cool, dry place.
Unplug battery chargers and remove batteries when not in use.

⚠WARNING To reduce the risk of injury, always unplug the charger and remove the battery from the charger before performing any maintenance. Never disassemble the battery or charger. Contact a MILWAUKEE service facility for ALL repairs.

To reduce the risk of injury and damage, never immerse your battery or charger in liquid or allow a liquid to flow inside them.

Cleaning

Clean out dust and debris from charger vents and electrical contacts by blowing with compressed air. Use only mild soap and a damp cloth to clean the battery pack and charger, keeping away from all electrical contacts. Certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around batteries, charger, or tools.

Repairs

The **battery** has no serviceable parts.

ASSEMBLY

WARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

WARNING Only use accessories specifically recommended for this tool. Others may be hazardous.

Always remove the battery pack any time the heated gear is not in use.

Using with Heated Gear

The flat pack charger functions as a battery holder when used with the heated gear.

Insert the power cable (from inside the battery holder pocket) into the power cable port on the battery holder.

Place the battery holder into the pocket and fasten closed.

To **remove** the flat pack, fasten the pocket open and unplug the flat pack.

Using the USB-C Port

The USB-C port can be used to charge a USB device that uses less than 5V, 3A of DC electrical current.

To turn **on** the USB-C port, press the power button to enable power out. The heated gear can remain on while the USB-C port is charging a device.

Fuel Gauge

Press the power button to display the battery pack's remaining power.

ONE-KEY™ or TBD APP

To learn more about the ONE-KEY™ functionality for this tool, go to milwaukeeetool.com/One-Key. To download the ONE-KEY™ app, visit the App Store® or Google Play™ from your smart device.

ONE-KEY™ Indicator	
Solid Blue	Wireless mode is active and ready to be configured via the ONE-KEY™ app.
Blinking Blue	Tool is actively communicating with the ONE-KEY™ app.
Blinking Red	Tool is in security lockout and can be unlocked by the owner via the ONE-KEY™ app.

MAINTENANCE

WARNING To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the battery pack, charger, or tool, except as provided in these instructions. Contact a MILWAUKEE service facility for all other repairs.

Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to a MILWAUKEE service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to a MILWAUKEE service facility for inspection.

If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE service facility for repairs.

WARNING To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

Cleaning

Clean dust and debris from any vents. Keep tool clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

Repairs

For repairs, return the tool, battery pack and charger to the nearest authorized service center.

ACCESSORIES

WARNING Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to www.milwaukeeetool.com or contact a distributor.

SERVICE - UNITED STATES

1-800-SAWDUST (1.800.729.3878)

Monday-Friday, 7:00 AM - 6:30 PM CST

or visit www.milwaukeeetool.com

Contact Corporate After Sales Service Technical Support with technical, service/repair, or warranty questions.

Email: metproductsupport@milwaukeeetool.com

Become a Heavy Duty Club Member at www.milwaukeeetool.com to receive important notifications regarding your tool purchases.

SERVICE - CANADA

Milwaukee Tool (Canada) Ltd

1.877.948.2360

Monday-Friday, 7:00 AM - 4:30 PM CST
or visit www.milwaukeetool.ca

LIMITED WARRANTY USA & CANADA

This MILWAUKEE power tool* is warranted to the original purchaser from an authorized MILWAUKEE distributor only to be free from defects in material and workmanship. Subject to certain exceptions, MILWAUKEE will repair or replace any part on this power tool which, after examination, is determined by MILWAUKEE to be defective in material or workmanship for a period of **two (2) years** after the date of purchase unless otherwise noted. Return of the power tool to a MILWAUKEE factory Service Center location or MILWAUKEE Authorized Service Station, freight prepaid and insured, is required. A copy of the proof of purchase should be included with the return product. This warranty does not apply to damage that MILWAUKEE determines to be from repairs made or attempted by anyone other than MILWAUKEE authorized personnel, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents.

Normal Wear: Many power tools need periodic parts replacement and service to achieve best performance. This warranty does not cover repair when normal use has exhausted the life of a part including, but not limited to, chucks, brushes, cords, saw shoes, blade clamps, o-rings, seals, bumpers, driver blades, pistons, strikers, lifters, and bumper cover washers.

*This warranty does not cover battery packs or all power tools. Refer to the separate and distinct warranties available for those products. The warranty period for the LED in the LED Work Light (49-24-0171) and the LED Upgrade Bulb (49-81-0090) is the lifetime of the product subject to the limitations above. If during normal use the LED or LED Upgrade Bulb fails, the part will be replaced free of charge.

Warranty Registration is not necessary to obtain the applicable warranty on a MILWAUKEE power tool product. The manufacturing date of the product will be used to determine the warranty period if no proof of purchase is provided at the time warranty service is requested.

ACCEPTANCE OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE CONTRACT FOR THE PURCHASE OF EVERY MILWAUKEE PRODUCT. IF YOU DO NOT AGREE TO THIS CONDITION, YOU SHOULD NOT PURCHASE THE PRODUCT. IN NO EVENT SHALL MILWAUKEE BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, TO THE EXTENT PERMITTED BY LAW, MILWAUKEE DISCLAIMS ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE; TO THE EXTENT SUCH DISCLAIMER IS NOT PERMITTED BY LAW, SUCH IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THE APPLICABLE EXPRESS WARRANTY AS DESCRIBED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

This warranty applies to product sold in the U.S.A. and Canada only. Please consult the 'Service Center Search' in the Parts & Service section of MILWAUKEE's website www.milwaukeetool.com or call 1.800.SAWDUST (1.800.729.3878) to locate your nearest service facility for warranty and non-warranty service on a MILWAUKEE power tool.