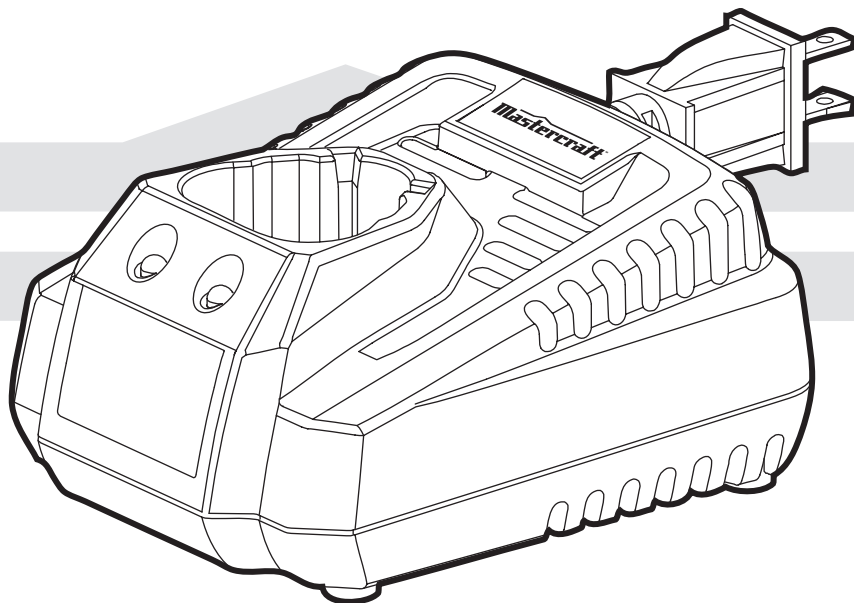


MastercraftTM



INSTRUCTION MANUAL

12V max* LITHIUM-ION BATTERY CHARGER

054-1260-6

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



Read and understand this instruction manual thoroughly before using the product. It contains important information for your safety as well as operating and maintenance advice.

Keep this instruction manual for future use. Should this product be passed on to a third party, then this instruction manual must be included.



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CHARGER INPUT	120 V ~ 60 Hz AC only
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OPTIMUM CHARGING BATTERY	054-1259-2
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CHARGER WEIGHT	12 oz (0.35 kg)
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OPTIMUM CHARGING TEMPERATURE	0-40°C (32-104°F)
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**WARNING!**

Safety symbols in this Instruction Manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitutes for proper accident prevention measures.

**WARNING!**

This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

Know your tool

To operate this tool, carefully read this Instruction Manual and all labels affixed to the Charger before using. Keep this Instruction Manual available for future reference.

Important

This tool should only be serviced by a qualified service technician. For more information, call the toll-free helpline at 1-800-689-9928.

Read all instructions thoroughly**Save these instructions****General power tool safety warnings****WARNING!**

Read all safety warnings and 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.

Work area safety

- **Keep your work area clean and well-lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in an explosive environment, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks that may ignite the dust or fumes.
- **Keep children and bystanders away while operation a power tool.** Distractions can cause you to lose control.

Electrical safety



WARNING!

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch a plug with wet hands.

- **The plug on the power cord must match the outlet.**
- **Do not alter the plug in any way.** Do not use an adaptor plug with a grounded power tool. Using unaltered plugs and proper outlets reduces the risk of electric shock.
- **Avoid bodily contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if the operator's body is 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 power cord.** Never use the cord to carry the tool or to pull the plug out of an outlet. Keep the cord away from heat, oil, sharp edges, and moving parts. Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an outdoor extension cord that is suitable for outdoor use.** Using the proper extension cord reduces the risk of electric shock.



WARNING!

If any parts are missing, do not plug the charger until the missing parts have been replaced. Failure to replace parts could result in serious personal injury.

Specific safety guidelines for charger



WARNING!

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.



WARNING!

To reduce the risk of electric shock or damage to the charger and the battery, charge only recommend rechargeable batteries as specifically designated on your charger. Other types of batteries may burst, causing personal injury or damage.

- **For indoor use only.**
- **Dry location use only.**
- **Risk of fire and electric shock.** Risk of injury.
- **Charge only Mastercraft® 054-1259-2 Battery Pack.** Other types of battery packs may burst, causing injury to persons and damage.
- **Do not use the charger outdoors or expose it to wet or damp conditions.** Water entering the charger will increase the risk of electric shock.
- **Use of an attachment not recommended or sold by the battery-charger manufacturer may result in a risk of fire, electric shock or personal injury.**
- **Do not abuse the cord or charger.** Never use the cord to carry the charger. Do not pull the charger cord to disconnect the plug from a receptacle. Damage to the cord or charger could occur and create an electric shock hazard. Replace damaged cords immediately.
- **Make sure that the cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts, or otherwise subjected to damage or stress.** This will reduce the risk of accidental falls, which could cause injury and damage to the cord and could then result in electric shock.
- **Keep the cord and charger away from heat to prevent damage to the housing or internal parts.**
- **Do not allow gasoline, oils, petroleum-based products, etc. to come in contact with plastic parts.** These materials contain chemicals that can damage, weaken, or destroy plastic.
- **An extension cord should not be used unless absolutely necessary.** Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure that:
 - The pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger.
 - The cord is properly wired and in good electrical condition. The size is large enough for A/C ampere rating of charger as specified below:

Cord Length (Feet)	25'	50'	100'
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Cord Size (AWG)	16	16	16
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NOTICE: AWG = American Wire Gauge

- **Do not operate the charger with a damaged cord or plug, which could cause shorting and electric shock.** If damaged, have the charger repaired or replaced by a qualified service technician.
- **Do not operate the charger if it has received a sharp blow, been dropped, or has otherwise been damaged in any way.** Take it to a qualified service technician for an electrical check to determine if the charger is in good working order.
- **Do not disassemble the charger.** Take it to a qualified service technician when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- **Unplug the charger from the electrical outlet before attempting any maintenance or cleaning to reduce the risk of electric shock.**
- **Disconnect the charger from the power supply when it is not in use.** This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening. It will also help prevent damage to the charger during a power surge.
- **Risk of electric shock.** Do not touch the uninsulated portion of the output connector or uninsulated battery terminal.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend these instructions to them to prevent misuse of the product and possible injury.
- **The label on your tool may include the following symbols. The symbols and their definitions are as follows:**

V Volts

A Amperes

Hz Hertz

W Watts

min Minutes

~ Alternating current

— — — Direct current

n_0 No load speed

 Class II Construction

.../min Revolutions per minute

 Grounding terminal

BPM Beats per minute

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

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.

Package contents

Charger, Owner's Manual



WARNING!

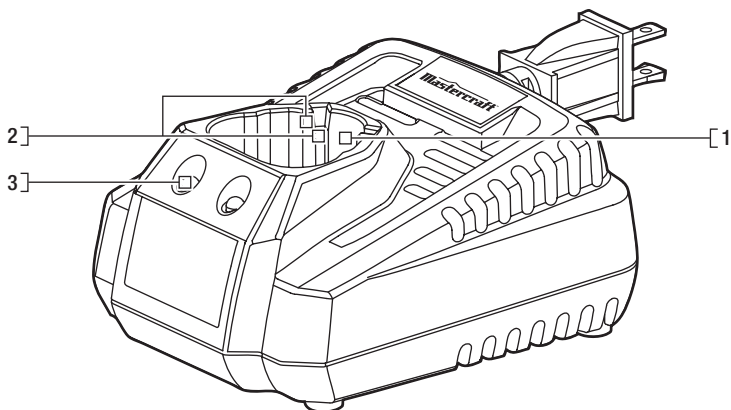
Remove the charger from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.



WARNING!

If any part of the charger is missing or damaged, do not plug the charger to the power supply until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.

Know your charger



No.	Description	No.	Description
1	Mounting hole	3	LED indicator
2	Electrical contacts		

Before attempting to use this tool, become familiar with all of its operating features and safety requirements. For optimum performance and safety, read the following operating instructions carefully before using.

**WARNING!**

Do not allow familiarity with the charger to cause a lack of alertness. A fraction of a second of carelessness is enough to cause severe injury.

When to charge the battery pack

The Lithium-Ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when it is convenient for you and your job.

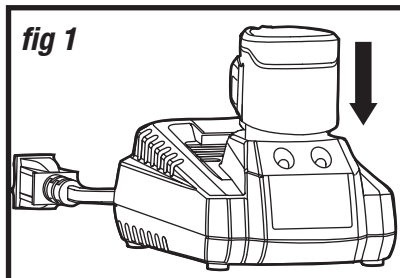
1. You can “top-off” your battery pack’s charge before starting a big job or a long period of use.
2. Due to Lithium-Ion’s fade-free properties, the only time it is necessary to charge the Lithium-Ion battery pack is when the pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly. Charge the battery pack as needed.

How to charge the battery pack









NOTE: The Lithium-Ion battery pack is shipped partially charged. Fully charge the battery pack before using it for the first time.

A fully discharged battery pack will charge in about 30 minutes at a temperature between 0-40°C (32-104°F).

1. Charge the Lithium-Ion battery pack only with the correct charger.
2. Connect the charger to a power supply.
3. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Insert the battery pack into the charger (*fig 1*).
4. The charger will communicate with the battery pack to evaluate the condition of the battery pack.
5. The green light will flash while the battery pack is charging. After charging is complete, the green LED on the charger will be on. The flickering red light indicates defective battery or bad connection between the battery and the charger.
6. If left on the charger, the battery pack will fully charge, but will not overcharge.



LED functions of the charger (fig 2)

LED Indicator	Battery Pack Status	Red LED	Green LED	Explanation
 HI/LO TEMP. (SEE MANUAL) 	Hot/Cold battery	ON	OFF	Charging will begin when battery returns to 0-40°C (32-104°F)
 DEFECTIVE BATTERY 	Defective	Flashing	OFF	Battery pack is defective
 BATTERY CHARGING 	Charging	OFF	Flashing	Charging
 BATTERY FULL 	Fully charged	OFF	ON	Charging is complete; maintenance charging

Charging a hot battery pack

If the battery pack is above normal temperature range, the red LED will be lit and the green LED will be off. When the battery pack cools down to approximately 104° F (40° C), the charger will begin charging automatically.

Charging a cold battery pack

If the battery pack is below the normal temperature range, the red LED will be lit and the green LED will be off. When the battery warms to a temperature of more than 32° F (0° C), the charger will begin charging automatically.

Defective battery

If the charger detects a problem, the red LED will begin flashing and the green LED will be off.

1. If defective, remove and reinsert the battery pack in the charger. If the LED status reads “defective” a second time, try charging a different battery pack.
2. If a different battery pack charges normally, dispose of the defective battery pack (see Maintenance section).
3. If a different battery pack also indicates “defective,” the charger may be defective.

Battery charging

If the temperature of the battery pack is within the normal temperature range, the green LED will begin flashing and the red LED will be off. The battery pack will reach a full charge in 30 minutes.

Battery full

If the battery pack is within the normal temperature range, the green LED will be lit and the red LED will be off. The battery pack is fully charged and ready to use. If left on the charger, the battery pack will fully charge, but will not overcharge.

NOTE: The charger may become warm with several continuous charge cycles. This is part of the normal operation of the charger. Charge in a well-ventilated area.

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MAINTENANCE

Before each use:

- Inspect the charger and the cord for damage.
- Check for damaged, missing, or worn parts.
- Check for loose screws, misalignment or binding of moving parts, or any other condition that may affect the operation.



WARNING!

Do not let brake fluids, gasoline, petroleum-based products, penetrating oil, etc. come into contact with plastic parts. These substances contain chemicals that can damage, weaken, or destroy plastic.



WARNING!

When servicing, use only identical replacement parts. The use of any other parts may create a hazard or cause damage to the product.



WARNING!

Use only accessories that are recommended for this charger by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used with another tool.



WARNING!

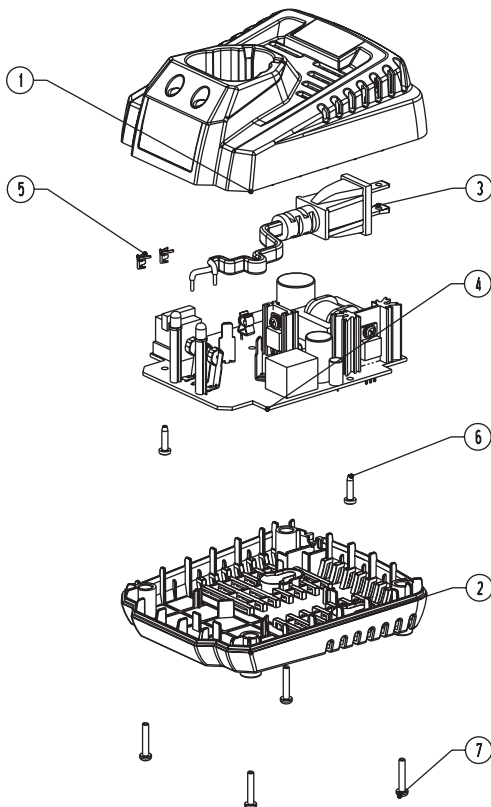
To ensure safety and reliability, all repairs should be performed by a qualified service technician.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The battery pack isn't charging	The battery pack is not connected to the charger	Attach the battery pack to the charger again
	The charger is not attached to an electrical outlet	Attach the charger plug to an electrical outlet

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PARTS LIST

Exploded view



No.	Part No.	Description	No.	Part No.	Description
1	3123988000	Upper Housing	5	4930329000	Terminal
2	3123989000	Lower Housing	6	5610012000	Tapping Screw
3	4810002000	Power Cord & Plug	7	5610218000	Screw
4	4890444000	PCB Assembly			

If any parts are missing or damaged, or if you have any questions, please call the Toll-free Helpline, at 1-800-689-9928.



This Mastercraft product is guaranteed for **two (2) years from the date of original retail purchase** against defects in materials and workmanship, except for the following components

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of **2 years** from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: Accessories, which are guaranteed for a period of **1-year** from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period, and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification) at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

These warranties are subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and the purchase date must be provided;
- b) this warranty will not apply to any product or part thereof that is worn or broken or that has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions), or that is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product and that are expected to become inoperative or unusable after a reasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items, including but not limited to fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer);

- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, including but not limited to scratches, dents, paint chips, or to any corrosion or discolouring caused by heat, abrasive and chemical cleaners; and
- i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

Additional Limitations

This warranty applies only to the original purchaser and cannot be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including but not limited to any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to the Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

IMPORTED BY MASTERCRAFT CANADA TORONTO, CANADA M4S 2B8