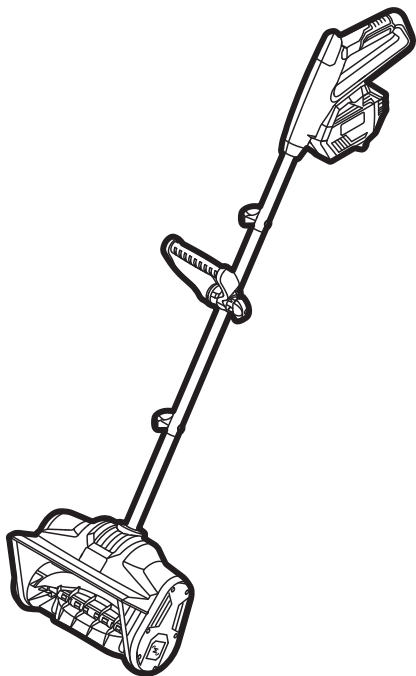


MASTERCRAFT™/MC

CORDLESS SNOW SHOVEL

060-2016-8



IMPORTANT:

Read and understand this instruction manual thoroughly before using the product.

INSTRUCTION MANUAL

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NOTE:

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



SAVE THESE INSTRUCTIONS

- This manual contains important safety and operating instructions. Read all instructions and follow them with use of this product.

TECHNICAL SPECIFICATIONS

Rated Voltage	20 V d.c. max*
No-load Speed	2400 RPM
Clearing Width	11" (28 cm)
Recommended operating temperature	-4 to 32°F (-20 to 0°C)
Recommended storage temperature	-4 to 122°F (-20 to 50°C)

* Maximum battery voltage without workload; with workload nominal voltage is 18V.

SAFETY GUIDELINES:



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 cordless snow shovel 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. This snow shovel is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury.

IMPORTANT!

SAFETY INSTRUCTIONS

ALL OPERATORS MUST READ THESE INSTRUCTIONS BEFORE USE

Read all instructions before using this cordless snow shovel. Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

GENERAL SAFETY WARNINGS!

You and any other operator of this snow shovel must read, understand and follow these instructions in their entirety, and should reread them at the start of each snow season. Failure to follow these instructions may result in ELECTRIC SHOCK, FIRE and/or serious PERSONAL INJURY.

Notice the personal safety alert symbol  is used in this manual to draw your attention to a WARNING given along with the particular operating instruction. This means that the operation requires special ATTENTION, CAUTION and AWARENESS.

- **Keep work area clean and well lit** – Cluttered, dark areas invite accidents.
- **Use the right product** – Do not use this machine for any job except that for which it is intended.
- **Replacement parts** – When servicing this unit, use only identical replacement parts. Replace or repair damaged cord immediately on the charger. Do not use on gravel surfaces unless the snow shovel is adjusted for such surfaces in accordance with the operator's manual.

- **Keep children, bystanders and pets away** – All spectators, including pets, should be kept a safe distance away from the work area.
- **Dress properly** – Do not wear loose articles of clothing or jewellery. They can become caught in moving parts. Wear rubber boots.
- **Avoid accidental starting** – Make sure the safety switch and the trigger switch are in the off position before inserting the battery in the unit. Do not carry the cordless snow shovel with the safety switch and the trigger switch engaged.
- **Moving parts** – Keep hands and feet away from moving parts. Keep guards in place and in proper working order.
- **CAUTION!** Exercise caution to avoid slipping or falling. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
- **Use safety glasses** – Also use safety footwear, snug-fitting clothing, protective gloves, hearing and head protection.
- **Stay alert** – Watch what you are doing. Use common sense. Do not operate the cordless snow shovel when you are tired or under the influence of alcohol or drugs.
- **Do not force the tool** – It will perform better with less likelihood of personal or mechanical injury if it is used at the rate for which it was designed.
- **Do not overreach** – Keep proper footing and balance at all times.
- If the cordless snow shovel strikes a foreign object, follow these steps:
 - **Stop the cordless snow shovel. Remove the battery.**
 - **Inspect the snow shovel for damage.**
 - **Repair any damage before restarting and operating the snow shovel.**
- **Disconnect the tool** – Turn off the power switch and remove the battery when it is not in use, before servicing it, when changing accessories and when performing any other maintenance task.
- **Store idle tool indoors** – When not in use, the cordless snow shovel should be stored indoors in a dry, locked place out of the reach of children.
- **Maintain the cordless snow shovel with care** – Follow the applicable maintenance instructions for replacing parts and changing accessories. Lubrication is not required.



WARNING!

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Improperly using or maintaining this cordless snow shovel could result in injury or death. To reduce this potential, comply with the following safety instructions.

This cordless snow shovel can amputate hands and feet if used incorrectly. It can also pick up foreign objects, which can become dangerous projectiles when thrown into the air. Failure to observe the following safety instructions could result in serious personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND SNOW SHOVEL

TRAINING

- Read, understand and follow all instructions on the machine and in the manual(s) before operating this unit. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children.
- Exercise caution to avoid slipping or falling, especially when operating the snow shovel in reverse.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards, wires, and other foreign objects.
- Do not operate the equipment without wearing adequate winter garments. Avoid loose-fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
- Never attempt to make any adjustments while the motor is running (except when specifically recommended by manufacturer).
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect eyes from foreign objects that may be thrown from the machine.

OPERATION

- Do not put hands or feet near or under rotating parts. Keep clear of the discharger opening at all times.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the motor, remove the battery pack(s), thoroughly inspect the snow shovel for any damage, and repair the damage before restarting and operating the snow shovel.
- If the unit should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the motor whenever you leave the operating position, before unclogging the auger assembly housing or rotor housing, and when making any repairs, adjustments or inspections.
- When clearing, repairing or inspecting the snow shovel, stop the motor and make certain the auger assembly and all moving parts have stopped. Remove the battery pack(s) to prevent someone from accidentally starting the motor.
- Exercise extreme caution when operating on slopes.
- Never operate the snow shovel without proper guards and other safety protective devices in place and working.
- Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.

- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Disengage power to the auger assembly when the snow shovel is transported or not in use.
- Use only attachments and accessories approved by the manufacturer of the snow shovel (such as rubber paddles, scraper bar and drive belt).
- Never operate the snow shovel without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.

CLEARING A CLOGGED ROTOR HOUSING

Hand contact with the rotating auger assembly inside the rotor housing is the most common cause of injury associated with snow shovels. Never use your hand to clean a clogged rotor housing.

To clear the rotor housing:

- **Shut the motor off and remove the battery.**
- Wait 10 seconds to be sure the auger assembly blades have stopping rotating.
- Always use a clean-out tool, not your hands.

MAINTENANCE AND STORAGE

- Check all bolts or fasteners at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Always refer to the operator's manual for important details if the snow shovel is to be stored for an extended period.
- Maintain or replace safety and instruction labels as necessary.
- Run the machine a few minutes after blowing snow to prevent freeze-up of the auger assembly.

SAFETY GUIDELINES FOR BATTERY-OPERATED TOOLS

- **Prevent unintentional starting.** Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the appliance. Carrying the appliance with your finger on the switch or energizing an appliance that has the switch on invites accidents.
- **Disconnect the battery pack from the appliance before making any adjustments, changing accessories, or storing appliance.** Such preventive safety measures reduce the risk of starting the appliance accidentally.
- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use appliances only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When 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.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water.** If liquid contacts eyes, seek additional

medical help. Liquid ejected from the battery may cause irritation or burns.

- **Do not use a battery pack or appliance that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or appliance to fire or excessive temperature.** Exposure to fire or temperature above 265°F (130°C) may cause an explosion.
- **Follow all charging instructions and do not charge the battery pack or appliance outside of the temperature range specified in the instructions.** Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- **Have servicing performed by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the product is maintained.
- **Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.**

FURTHER SAFETY INSTRUCTIONS

- **The label on your tool may include the following symbols. The symbols and their definitions are as follows:**

V Volts

A Amperes

W Watts

min Minutes

— or d.c. Direct current

n₀ No-load speed

RPM Revolutions per minute



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



..... WARNING – To reduce the risk of injury, always wear eye protection.



..... WARNING – To reduce the risk of injury, always wear ear protection.



..... WARNING – Do not use hands to unclog the chute.



..... WARNING – Keep feet away from rotating impeller.



..... WARNING – Do not expose the unit to rain or wet conditions. Keep dry.



..... CAUTION – Beware of stones and other foreign objects that could be thrown from the appliance.



..... Wear safety gloves during use to protect hands.



..... Wear safety footwear at all times to provide protection against objects that may accidentally fall on feet.



..... DANGER – Cutting/dismemberment hazard – Keep hands away from the rotating auger. Do not use hands to unclog rotor housing.



..... Keep hands, feet and clothing away from the rotating auger to avoid injury.



..... Keep bystanders and children a safe distance (at least 33'/10 m) away from the work area.



..... The rotating part will continuously run for several seconds after you turn off the machine.



WARNING!

To reduce the risk of electric shock or damage to the charger and battery, use only the Mastercraft® and PWR POD™ batteries and chargers listed.

BATTERY PACK

Mastercraft®: 054-3124-0,
054-7553-4, 054-7557-6,
054-2434-8

PWR POD™: 054-7563-0,
054-7564-8, 054-7558-4

CHARGER

Mastercraft®: 054-3126-6,
054-7559-2, 054-8299-4

PWR POD™: 054-3126-6,
054-7565-6, 054-7567-2

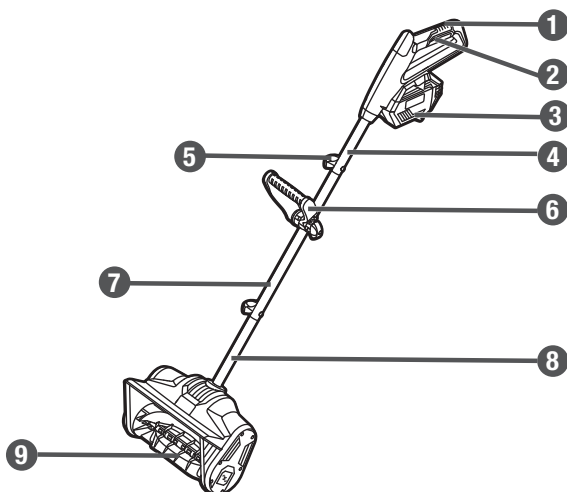
- **Do not use hands to unclog chute.** Stop motor before removing debris. Do not walk in front of running machine. Do not direct discharge at bystander.
- **To reduce the risk of injury, do not operate without guards in place.**

SAVE THESE INSTRUCTIONS!

PACKAGE CONTENTS:

Cordless snow shovel, 2 bolts, 3 knobs, 1 assist handle, 1 handle bolt

KEY PARTS DIAGRAM



No.	Description
1	Rear handle
2	Lock-off switch
3	Battery compartment
4	Upper pole
5	Locking knob

No.	Description
6	Adjustable front handle
7	Middle pole
8	Lower pole
9	Impeller/auger

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 this product.



WARNING!

- Remove the snow shovel from the package, and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.
- If any part of the snow shovel is missing or damaged, do not attach the battery pack to the tool or use the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.
- The safe use of this product requires an understanding of the information on the tool and in this instruction manual, as well as knowledge of the operation you are performing. Before use of this product, familiarize yourself with all operating features and safety rules.

OPERATING INSTRUCTIONS

ASSEMBLY

CONNECTING THE POLES (fig. 1-fig. 4)

1. Slide the middle pole into the lower pole assembly. Align the screw holes (fig. 1).
2. Insert the bolt through the square hole in the pole and secure the other end with the joint-fixing knob (fig. 2). Twist until tight.
3. Slide the upper pole assembly onto the middle pole. Align the screw holes (fig. 3).
4. Insert the bolt through the square hole in the pole and secure the other end with the joint-fixing knob (fig. 4). Twist until tight.

fig. 1

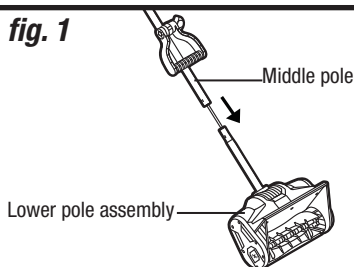


fig. 2

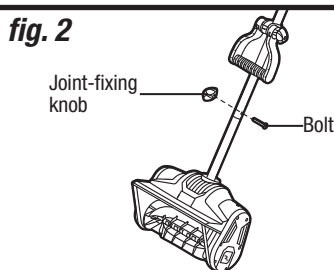


fig. 3

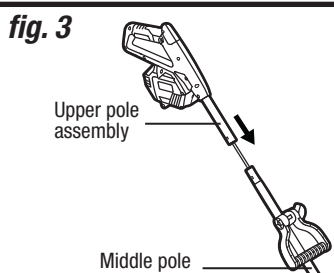
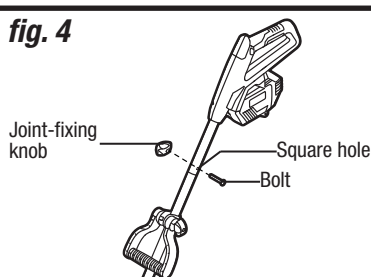


fig. 4



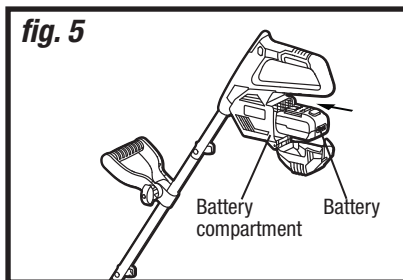
NOTICE:

- You may have to carefully move the wiring inside the tube to one side if it blocks the path of the bolt.

TO ATTACH/DETACH THE BATTERY PACK (fig. 5)

1. Open the protective cap of the battery compartment.
2. Align the raised portion on the battery pack with the grooves inside of the battery compartment, and then slide the battery pack onto the snow shovel.
3. Ensure that the battery-release button on the battery pack snaps into place and the battery pack is secured to the tool before beginning operation.
4. Open the protective cap of the battery compartment.
5. Depress the battery-release button to release the battery and remove it from the tool.

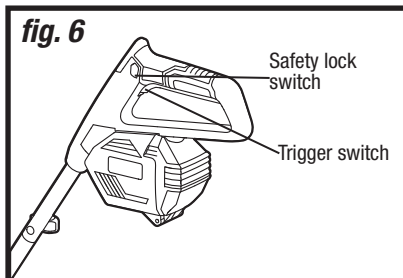
fig. 5



STARTING/STOPPING THE SNOW SHOVEL (fig. 6)

1. To start the cordless snow shovel, push and hold the safety lock switch on the side of the handle grip with your thumb and then squeeze the trigger switch with your fingers. Once the machine powers on, you can release the safety lock switch and proceed with operation.
2. To stop the cordless snow shovel, release the trigger switch.

fig. 6

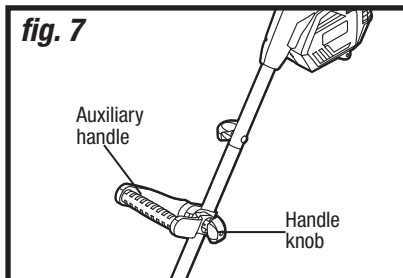


HANDLE ADJUSTMENT (fig. 7-8)

To adjust the angle of the auxiliary handle, follow the instructions below:

1. Stop the machine and remove the battery. Wait until the blade comes to a complete stop.
2. Loosen the auxiliary handle by turning the handle knob counter-clockwise. Rotate the auxiliary handle to a comfortable position (fig. 7).
3. Secure the handle by tightening the handle knob. Insert the battery and resume working.

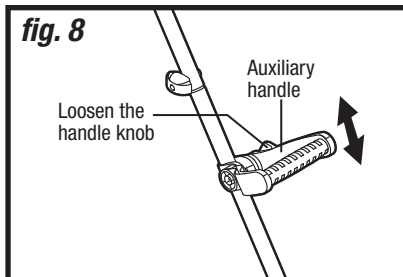
fig. 7



To adjust the position of the auxiliary handle, follow the instructions below:

1. Stop the machine and remove the battery. Wait until the blade comes to a complete stop.
2. Loosen handle knob slightly and adjust auxiliary handle as needed to desired position. Retighten handle knob securely (fig. 8).
3. Insert the battery and resume working.

fig. 8



OPERATING TIPS

- Start the cordless snow shovel. Push the shovel forward at a comfortable rate, yet slow enough to clear the path completely. The clearing width of the snow shovel and the depth of snowfall should dictate your forward speed.
- Direct the snow discharge to the right or to the left by holding the cordless snow shovel at a slight angle.
- To remove snow most efficiently, throw the snow downwind and slightly overlap each swath.
- If you need to clear snow from a crushed rock or gravel surface, push down on the handle to keep the scraper blade clear of any loose material that the rotor blades could throw.
- This cordless snow shovel cuts a path 11" (28 cm) wide and up to 9" (22.8 cm) deep in one pass.
- When clearing deeper drifts, hold the cordless snow shovel by the upper and auxiliary handles and use a swinging or sweeping motion. Remove up to 9" (22.8 cm) of snow with each pass and repeat as many times as needed.
- Remove the battery after using the cordless snow shovel. Hang the shovel so it will not be misplaced or damaged.

**DANGER!**

- Never use a snow shovel on frozen lakes, rivers, or similar surfaces. Death or serious injury could occur if the ice breaks.
- Never use the snow shovel on a rooftop or other unstable surface, which can result in death or serious personal injury.

NOTICE:

- In order to prevent the auxiliary handle from moving around or sliding on the pole, be sure to tighten securely.



WARNING!

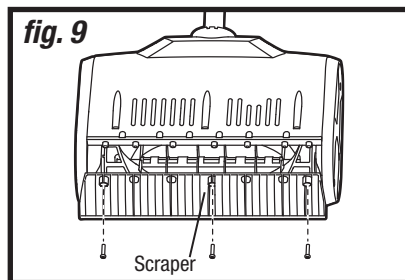
- Do not use snow shovel on ice, which can cause the operator to slip and fall, resulting in possibly serious personal injury.
- Do not wear loose clothing, scarves, or jewellery. They can be caught in moving parts and cause death or serious personal injury.
- Keep all snow discharge pointed away from all electrical devices to reduce the risk of electrocution or electric shock.
- Never point the snow shovel or discharge chute in the direction of people or pets. Thrown snow or other objects can cause serious injuries.
- Make sure that the area to be cleared is free of stones, sticks, wires, gravel, and other objects that could be accidentally thrown by the snow shovel in any direction and cause serious personal injury to the operator and others. If the unit comes in contact with any type of obstruction or debris during use, stop the snow shovel, remove the battery pack(s), remove the obstruction, and inspect the unit carefully for damage before proceeding.
- Never reach into the rotor housing or place any body part in front of the snow shovel when the unit is operating or when the battery pack(s) are installed. Always ensure all moving parts have stopped and the battery pack(s) have been removed before clearing any obstructions. Failure to follow these instructions can result in serious personal injury.
- Take notice of the direction of the wind before beginning. When possible, discharge snow in the same direction as the wind to prevent snow from being thrown back into your face.
- Some parts of the snow shovel can freeze under extreme weather conditions. Do not attempt to operate the unit with frozen parts.
- When finished, allow the motor to run for an additional few minutes to prevent moving parts from freezing, then turn the chute rotation handle back and forth several times to free it from any ice buildup. Make sure to clean off any snow and ice from the base of the chute.
- In snowy and cold conditions, some controls and moving parts may freeze. Do not use excessive force when trying to operate frozen controls. If you have difficulty operating any control or part, start the machine as shown in "STARTING/STOPPING THE SNOW SHOVEL" section and let it run for a few minutes.

MAINTENANCE

REPLACING THE SCRAPER (fig. 9)

The scraper is located at the base of the snow shovel beneath the rotor housing.

1. Remove the battery pack(s) from the tool.
2. Detach the worn scraper from the snow shovel by removing the 3 screws as shown in fig. 9.
3. Install the new scraper and fasten it securely to the snow shovel with 3 screws.



STORAGE

1. Remove the battery from the cordless snow shovel before storing.
2. Store the cordless snow shovel indoors in a locked, dry place out of the reach of children to prevent unauthorized use or damage.

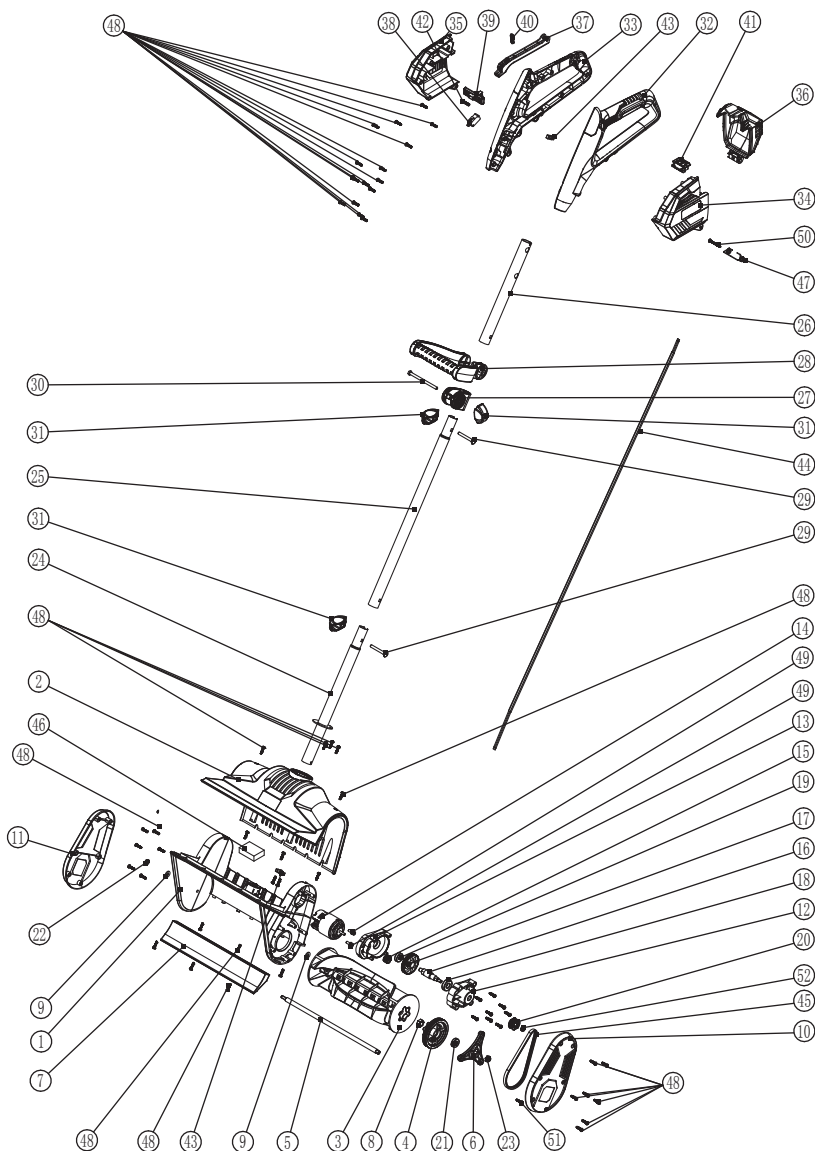
TROUBLESHOOTING

Problem	Possible Causes	Solution
The snow shovel doesn't work.	The battery pack is depleted.	Charge the battery pack.
	The battery or the tool is too hot.	Wait for the battery or tool to cool down, and then start the tool again.
	The battery pack is too cold.	Warm battery pack to room temperature and then use again.
The snow shovel leaves a thin layer of snow behind.	Safety switch is not depressed.	Press the safety switch and then squeeze the trigger switch.
	The scraper is worn.	Replace the scraper as shown in the section "REPLACING THE SCRAPER" in this manual.

If the problem remains unsolved after performing the checks described above, call the toll-free helpline at 1-800-689-9928.

EXPLODED VIEW

PARTS LIST



No.	Part No.	Description
1	0602016801	Lower case
2	0602016802	Upper case
3	0602016803	Snow knives
4	0602016804	Big pulley
5	0602016805	Tool axis
6	0602016806	Wheel bracket
7	0602016807	Snow shovel
8	0602016808	Shaft sleeve
9	0602016809	Flat washers
10	0602016810	Left cover
11	0602016811	Right cover
12	0602016812	Gear box seat
13	0602016813	Gear box cover
14	0602016814	Motor
15	0602016815	Gear
16	0602016816	Transmission shaft
17	0602016817	Big gear
18	0602016818	Ball bearing
19	0602016819	Ball bearing
20	0602016820	Small pulley
21	0602016821	Ball bearing
22	0602016822	Hexagon lock nut
23	0602016823	Hexagon lock nut
24	0602016824	Downswing
25	0602016825	Middle pole
26	0602016826	Upper pole

No.	Part No.	Description
27	0602016827	Sub-handle seat
28	0602016828	Vice handle
29	0602016829	Square neck bolt
30	0602016830	Hex bolts
31	0602016831	Knob
32	0602016832	Left handle
33	0602016833	Right handle
34	0602016834	Left warehouse body
35	0602016835	Right body
36	0602016836	Warehouse cover
37	0602016837	Switch trigger
38	0602016838	Micro switch
39	0602016839	Self-locking button
40	0602016840	Battery pack push rod spring
41	0602016841	Plug-in seat
42	0602016842	Switch self-locking spring
43	0602016843	Cable clamp
44	0602016844	Headless power cord
45	0602016845	V-ribbed belt
46	0602016846	Controller
47	0602016847	Torsion spring
48	0602016848	Self-tapping screws
49	0602016849	Three combination screws
50	0602016850	Self-tapping screws
51	0602016851	Self-tapping screws
52	0602016852	Hexagon flange lock nut

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 a period of **three (3) 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 purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which 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 which 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 which 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 such as, 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, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring 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 may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to 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.

Made in China

Imported by

Mastercraft Canada Toronto, Canada M4S 2B8

