

BENCHMARKTM MC

22" 40V MAX[†] BRUSHLESS SNOW THROWER



Item # 5554-076

LIMITED
5 YEAR*
WARRANTY

Includes 2 batteries & 1 charger
5 Year Limited Warranty on tool
3 Year Limited Warranty on battery and charger



**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.
SEE NEXT PAGE FOR CRITICAL TOOL RELATED
PRECAUTIONS.**

[†] Uses two 20v Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

PRODUCT SPECIFICATIONS

22" 40V MAX[†] BRUSHLESS SNOW THROWER

No Load Speed	2000 RPM
Clearing Width	22" (56 cm)
Clearance Depth	10.6" (27 cm)
Throwing Distance	30' (9m)
Wheel Size (diameter)	8" (20.3 cm)
Recommended Operating Temperature	- 4°F – 50°F (-20°C – 10°C)
Vibration Level	0.9 m/s ² , K=1.5 m/s ²
Tool Operational Weight	48.39 lbs. (21.95 kg)

BATTERY AND CHARGER

Battery Voltage	20V 8.0Ah Li-ion (Maximum charged battery voltage, measured without load, is 20V with a nominal value of 18V)
Charge Time	Up to 200 minutes

REPLACEMENT PARTS AVAILABLE AT HOME HARDWARE

Replacement Battery	HH #5350-012 (5Ah) HH #5350-049 (8Ah)
Replacement Charger	DL113418-B dual 2.4A charger (charge 2.0Ah to 8.0Ah) 5350-048 dual 4A charger (charge 2.0Ah to 8.0Ah) 5350-022 6A fast charger (charge 2.0Ah to 8.0Ah)

CRITICAL TOOL RELATED PRECAUTIONS

1. Keep hands/feet away from auger and discharge opening. Turn off and remove batteries before clearing clogs or servicing.
2. Clear debris. Do not aim snow thrower at people, vehicles, or windows. Keep others at a safe distance.
3. Batteries must be fully charged before first use and must be charged/stored indoors in a cool dry environment. Exposure to temperature extremes will reduce battery performance and lifespan.

READ ALL SAFETY, WARNING, PRECAUTIONS AND MAINTENANCE INFORMATION PROVIDED IN THIS MANUAL.

NEED ASSISTANCE?

- Technical questions
- Replacement parts
- Parts missing from package

Scan here for support

Email us at: customerservice@powertoolsplus.ca

Call us on our toll-free customer support line:

1-866-349-8665 (9-5pm Monday-Friday EST)



TABLE OF CONTENTS

Product specifications	1
Table of contents	2
General safety warnings	3-5
Snow thrower specific safety rules	5-7
Battery & charger safety	7-9
Battery pack recycling	9
Symbols	10
Know your snow thrower	11
Assembly and operating	12-21
Maintenance	21-24
Exploded view	25
Parts list	26-29
Warranty	30

GENERAL SAFETY WARNINGS

ALL OPERATORS MUST READ THESE INSTRUCTIONS BEFORE USE

 **WARNING:** Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

Notice the personal safety alert symbol  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.

 **WEAR CSA APPROVED EYE PROTECTION**

 **WEAR A FACE MASK**

 **WEAR EAR PROTECTION**

ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA REQUIREMENTS or ANSI SAFETY STANDARD Z87.1 FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.

 **WARNING:** Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.

ALWAYS WEAR EAR PROTECTION

 **WARNING:** Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.

ELECTRICAL SAFETY

 **WARNING:** Use proper circuit protection.

 **WARNING:** Ventilation openings in batteries and chargers must always be open to allow cooling air to circulate freely air vents that are blocked, restricted or covered may result in the battery or charger overheating. Overheating may lead to damage to the tool or cause a fire, resulting in possible serious injury.

WORK AREA SAFETY

Keep work area clean and well lit. Cluttered or dark areas invite accidents.

Do not operate snow thrower 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.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Snow thrower charger plug must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) battery charger. Unmodified plugs and matching outlets will reduce risk of electric shock.

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.

Do not expose the snow thrower to rain or wet locations. Water entering a snow thrower will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the snow thrower charger. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

When operating a charger outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of a ground fault circuit interrupter (GFCI) reduces the risk of electric shock.

PERSONAL SAFETY

Stay alert, watch what you are doing and use common sense when operating a snow thrower. Do not use a snow thrower while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the snow thrower may result in serious personal injury.

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.

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.

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 snow thrower may result in personal injury.

Do not overreach. Keep proper footing and balance at all times. This enables better control of the snow thrower in unexpected situations.

Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

POWER TOOL USE AND CARE

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.

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.

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.

Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.

Power tools are dangerous in the hands of untrained users.

Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

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.

Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.

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.

SNOW THROWER SPECIFIC SAFETY RULES

⚠ WARNING: Know your snow thrower. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this snow thrower. Following this rule will reduce the risk of electric shock, fire, or serious injury.

- Children should never be allowed access to the equipment. Adults should never operate the equipment without carefully reading and understanding these instructions.
- Do not handle charger, including charger plug, and charger terminals with wet hands.
- Keep the area of operation clear of all persons, particularly small children and pets.
- Exercise caution to avoid slipping or falling.
- 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 articles of clothing that can become caught in moving parts. Wear footwear that will improve footing on slippery surfaces.
- Do not attempt to clear snow from a gravel or crushed rock surface. This product is intended for use only on paved surfaces.

- Never attempt to make any adjustments while the motor is running (except when specifically recommended by the manufacturer).
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair to protect your eyes from foreign objects that may be thrown from the machine.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge 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. Thoroughly inspect the cordless snow thrower for any damage, and repair the damage before restarting and operating the cordless snow thrower.
- If the unit should start to vibrate abnormally, stop the motor and check the unit immediately to ascertain the cause vibration is generally a sign of trouble.
- Stop the motor and remove the batteries whenever you leave the operating position, when transporting the unit, before unclogging the auger housing and when making any repairs, adjustments or inspections to the unit.
- When cleaning, repairing or inspecting the cordless snow thrower, make sure that all moving parts have come to a complete stop before beginning work.
- Exercise extreme caution when operating on slopes.
- Never operate the cordless snow thrower without proper guards and other safety devices in place and in proper working order.
- Never direct the discharge toward people or areas where property damage can occur. Keep children, pets and other bystanders away from the work area.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Look behind and use care when backing up with the cordless snow thrower.
- Never operate the cordless snow thrower without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk, never run, with the unit.

 **WARNING:** Hand contact with the rotating auger inside the motor housing is the most common cause of injury associated with cordless snow thrower. Never use your hands to clear a clogged motor housing.

To clear the auger housing:

- Shut the motor off and remove the batteries.
- Wait 10 seconds to be sure the auger has come to a complete stop
- Always use a clean-out tool, not your hands, to free the rotating auger.

MAINTENANCE AND STORAGE

Check all fasteners at frequent intervals for proper tightness to ensure that the equipment is in safe working condition.

Always refer to the operator's manual for important details, such as how to properly store your cordless snow thrower for an extended period of time.

Maintain or replace safety and instruction labels as needed.

Run the machine a few minutes after throwing snow to prevent the auger from freezing.

BATTERY PACK & CHARGER SAFETY

BATTERY SAFETY INSTRUCTIONS

 **WARNING:** Only use the charger supplied with this kit to charge the 20V Li-ion batteries for this tool. Charging any other batteries may damage the charger and possibly cause serious injury.

1. 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. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.
2. Use the snow thrower only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. Be aware of possible hazards when not using your battery tool or when changing accessories. To reduce risk, remove the battery packs from the machine while not in operation. This will reduce the risk of electric shock, fire or serious personal injury.
4. Do not place appliances or their batteries near fire or heat. Continuous intense sunlight, fire or other heat sources may cause an increased danger of explosion.
5. Do not crush, drop or damage the battery packs. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
6. Batteries can explode in the presence of a source of ignition, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of an open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
7. Do not charge battery in a damp or wet location. Following this rule will reduce the risk of electric shock.
8. Longer life and better performance can be obtained if the battery pack is charged when the air temperature is between 75°F / 24°C and 64°F / 18°C. Do not charge the battery pack in air temperature below 41°F / 5°C or above 105°F / 40.5°C. This is important as it can prevent serious damage to the battery pack.
9. Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.
10. 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 sparks, burns, or a fire.

11. Do not disassemble the battery and avoid mechanical damage to the battery. Risk of short circuit and fumes may be emitted. Ensure fresh air and seek medical assistance in the event of discomfort.
12. Always remove battery packs from your tool when you are assembling parts, making adjustments, cleaning, or when not in use. Removing the battery packs will prevent accidental starting that could cause serious personal injury.
13. Always remove battery packs before storing the device. When battery becomes fully charged, unplug the charger from the power supply and remove the battery pack from the charger.
14. Keep battery pack dry, clean, and free from oil and grease. Always use a dry cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean battery pack.
15. Keep the battery pack out of the reach of children.
16. Do not charge the batteries in rain, snow or in damp or wet locations. Do not use the batteries or charger in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials) because sparks may be generated when inserting or removing the batteries which could lead to a fire.
17. Do not subject the battery to sunlight over long periods and do not leave it near a heat source. Heat damages the battery and there is a risk of explosion.



CHARGER SAFETY INSTRUCTIONS



1. The plug of the charger must match the outlet. Never modify the plug in any way. Unmodified plugs and matching outlets will reduce the risk of electric shock.
2. Ensure the battery pack is charged indoors only, in a dry, cool and well ventilated environment.
3. Allow a hot battery to cool before charging.
4. Do not use non-rechargeable batteries!
5. Do not attempt to charge battery packs other than those supplied. The charger and battery pack supplied with it are specifically designed to work together.
6. Before each use, check the charger, cable, and plug. Do not use a defective charger and do not disassemble the charger. Incorrect reassembly may result in the risk of fire, electric shock, or electrocution.
7. Protect the charger against moisture and wet conditions. There is a danger of electric shock.
8. Operate the charger only with the original batteries. Charging other batteries may result in injuries and risk of fire.
9. Avoid mechanical damage to the charger. This can result in internal short circuits.
10. Do not operate the charger on easily inflammable surfaces (e.g. paper, textiles, etc.). The heating of the battery charger during the charging process could pose a fire hazard.
11. Do not abuse the cord of the charger. Never use the cord for carrying, pulling or unplugging the charger.

12. Keep the cord away from heat, oil, sharp edges or moving parts.
13. Damaged or entangled cords increase the risk of electric shock.
14. Do not operate the charger with a damaged cord or plug, which could cause a short circuit and electric shock. If damaged, immediately discontinue use. Replace the charger with the identical unit as listed in the Product Specifications in this manual. If the power cord for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or qualified person to prevent hazards.
15. Do not use a charger that has been dropped or received a sharp blow.
16. The voltage indicated on the charger rating plate must correspond to the voltage of the power source.
17. Never touch the charger or charger plug with wet or damp hands.
18. The batteries are not fully charged at the time of delivery. They need to be fully charged before using for the first time. For the first recharge cycle, charge the batteries fully.
19. It is good practice to unplug the charger and remove the lithium-ion battery pack when not in use.
20. This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety.
21. Children should be supervised to ensure that they do not play with the charger.
22. Charge in a well-ventilated area. Do not block the charger vents. Keep them clear to allow for proper ventilation. Do not allow smoking or open flames near a charging battery pack. Vented gases may explode. Do not charge the battery outside in freezing weather; charge it at room temperature.
23. Charger is rated for 120 volts only. The charger must be plugged into an appropriate receptacle.

RECYCLING AND DISPOSAL

 **WARNING:** Do not dispose of batteries/rechargeable batteries into household waste!

BATTERY PACK RECYCLING



To preserve our natural resources, please recycle or dispose of batteries properly.

The batteries charged by this charger may contain chemicals and metals that are harmful to the environment. Never dispose of rechargeable batteries in your normal household garbage or in landfill sites as they will add to the pollution of the environment.

SYMBOLS

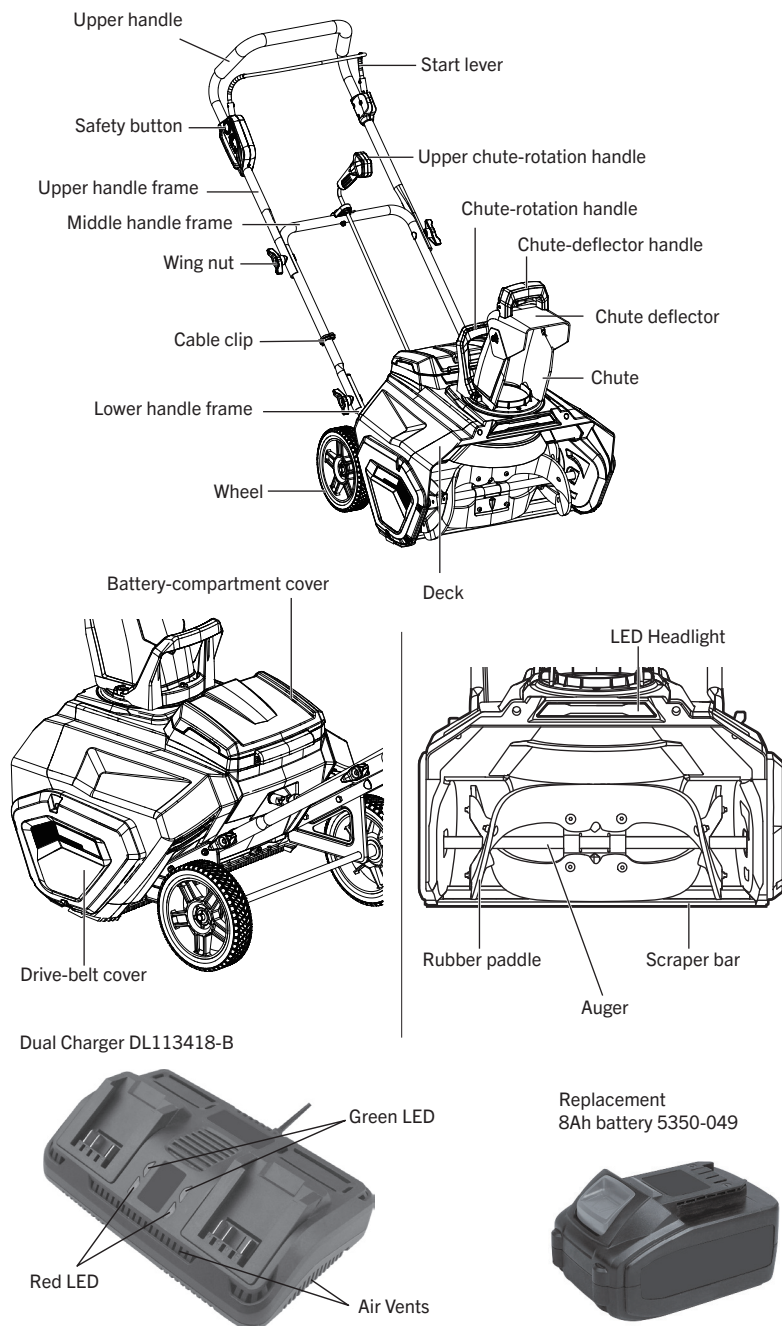
⚠ WARNING: Some of the following symbols may appear on this snow thrower. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

	READ THE OPERATOR'S MANUAL(S)- Read understand and follow all instructions in the user manual(s) before attempting to assemble and operate.		WARNING! Do not expose the unit to rain or wet conditions. Keep dry.
	SAFETY ALERT -Indicates a precaution, a warning or a danger.		DANGER! Cutting/dismemberment hazard - Keep feet away from the rotating auger.
	Wear hearing protection. Wear eye protection. Wear breathing protection.		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.
	Do not use hands to unclog chute.		DANGER! Cutting/dismemberment hazard - Keep hands away from the rotating auger. Do not use hands to unclog auger housing. Stop motor before removing debris.
	Keep hands, feet and clothing away from the rotating auger to avoid injury.		Keep bystanders and children a safe distance (at least 11 yd/10 m) away from the work area.
	The rotating part will continuously run for several seconds after you turn off the machine.		Indoor use only. Only use battery charger indoors.



This symbol designates that this tool is listed with U.S. requirements by TÜV Rheinland (Shanghai) Co., Ltd.
 UL 62841-1,
 ISO 8437-1:2021,
 ISO 8437 -2:2021,
 ISO 8437-4: 2021.

KNOW YOUR SNOW THROWER



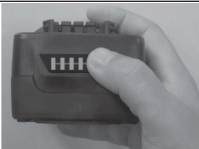
ASSEMBLY AND OPERATING

CHECKING THE BATTERY CHARGER STATUS

The level of charge remaining in the battery can be checked by using the battery LED power indicator that is contained on the end of the battery.

NOTE: The battery charge remaining may be checked while the battery is installed in the tool with the ON/OFF switch turned OFF. It may also be checked while the battery is removed from the tool. **DO NOT check the battery charge remaining while the battery is in the charger.** You will get a false reading and you may also damage the battery status system.

1. Press and hold the battery status button located on the end of the battery.
2. One or more of the Four LED lights in the LED window will come ON to indicate the amount of charge that is remaining in the battery as follows:

Charge Level Indicator						
Amount of Charge Remaining	0 - 10%	10 - 25%	25 - 50%	50 - 75%	75 - 100%	

3. Release the battery status button to turn the LEDs OFF.

CHARGING THE BATTERY PACK

1. Place the battery charger (1) in a dry location near a 110–120V 60Hz outlet (Fig.1).
2. Plug the battery charger into the outlet and make sure the green LED indicator light (5) comes ON. If it does not, refer to the chart (Fig. 2) to identify the problem.
3. Turn the batteries (2) upside down and slide onto the charger.

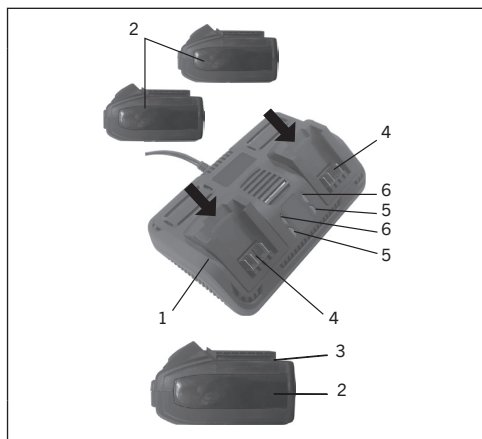


FIG. 1

NOTE: Make sure the grooves (3) in the sides of the batteries slide over the matching tabs in the charger (Fig.1) until each battery latch "clicks" into place.

a) When the charger is plugged into the wall receptacle and NO battery is on the charger, the green indicator light (5) (Fig.1) will turn ON indicating the charger is "live".

b) When a discharged battery is installed on the charger, the green indicator light will turn OFF and the red indicator light (6) (Fig.1) will FLASH. The flashing red indicator light indicates the battery is being charged.

c) If the red indicator light does not come ON, check to make sure battery pack is slid fully onto the charger and the electrical outlet is working properly.

d) See (Fig.2) below for other indicator light functions.

e) A discharged battery pack should be fully charged in up to 200 minutes.

f) It is normal for the battery charger to hum and be warm to the touch during operation.

g) If the battery pack does not charge properly, check to make sure the electrical outlet is "live".

h) DO NOT charge batteries when the work area or the battery temperature is at or below 5°C (41° F) or above 40°C (105° F).

GREEN LIGHT	RED LIGHT	BATTERY INSERTED INTO CHARGER	SYMBOL	CHARGING STATUS
ON	OFF	NO	NONE	CHARGER CONNECTED TO POWER SUPPLY
OFF	FLASHING	YES		BATTERY BEING CHARGED
ON	OFF	YES		BATTERY FULLY CHARGED
OFF	ON	YES		DEFECTIVE-BATTERY IS CHARGED BUT NOT OPERATIONAL ON TOOL
ON	ON	YES		CHARGING CONDITIONS ARE EITHER TOO HOT OR TOO COLD

FIG. 2

INSTALLING THE BATTERIES ON THE SNOW THROWER

NOTE: Both batteries must be installed to operate the snow thrower.

1. The battery-pack cover is hinged. Raise the battery-compartment cover by lifting the front of the cover (Fig. 3).
2. Align the grooves in the battery packs with the raised ribs in the snow thrower battery compartment. Then insert the battery packs into the compartment.
3. Push the battery packs until you hear a "click". The battery-release button will spring up when a battery pack is securely attached.

NOTE: Make sure that the latch on the snow thrower locks into place and that the battery packs are secured to the snow thrower before starting.

4. To detach a battery pack, push the battery-release button to release the battery, and then pull it out of the compartment.
5. Close the battery-compartment cover.

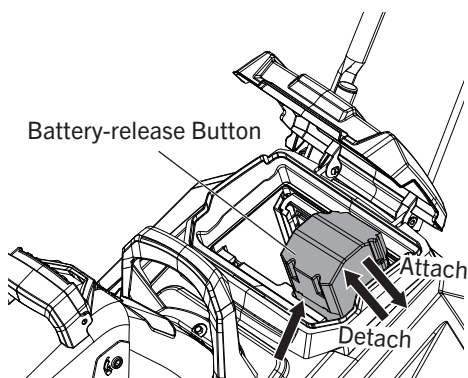


FIG. 3

INSTALLING THE MIDDLE HANDLE FRAME

1. Align the two holes in the middle handle frame with the holes in the lower handle frame. Make sure the support seat on the middle handle frame is facing up as shown in Fig. 4.
2. Insert two bolts with washers through the holes and secure the middle handle frame to the lower handle frame with the wing nuts.

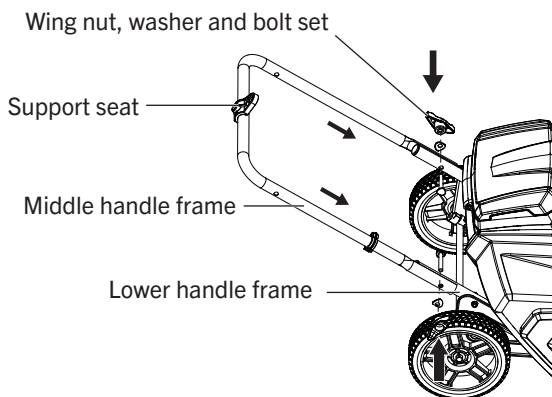


FIG. 4

INSTALLING THE UPPER HANDLE

1. Lift the upper handle frame and align the two holes in the upper handle with the holes in the middle handle frame as shown in Fig.5
2. Insert two bolts with washers through the holes and secure the upper handle to the middle handle frame with the wing nuts.
3. Secure the cable to the middle handle frame using the cable clip as shown in Fig. 6.

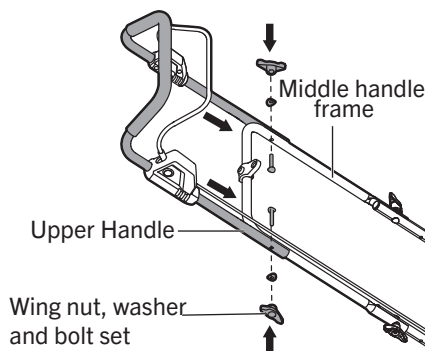


FIG. 5

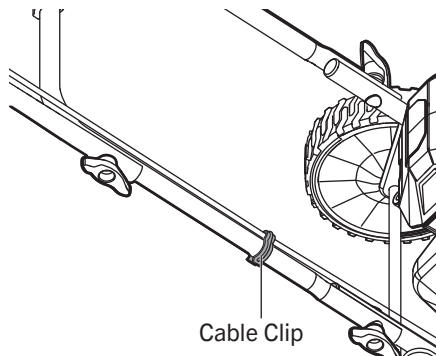


FIG. 6

INSTALLING THE CHUTE

⚠ WARNING: Never operate the snow thrower without the complete discharge chute in place.

1. Align the three holes in the chute with three rods on the chute base and push the chute down (Fig. 7.)
2. Align the three holes in the chute rotation handle with the holes in the chute and place the handle onto the chute.
3. Use a Phillips screwdriver (not included) to secure the chute in place with three long bolts.

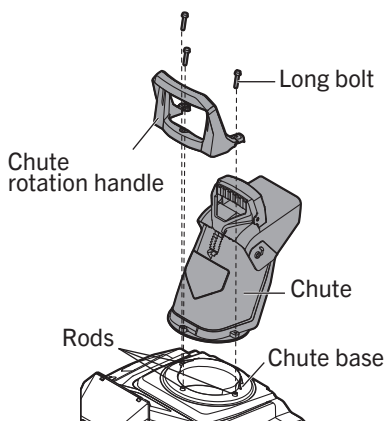
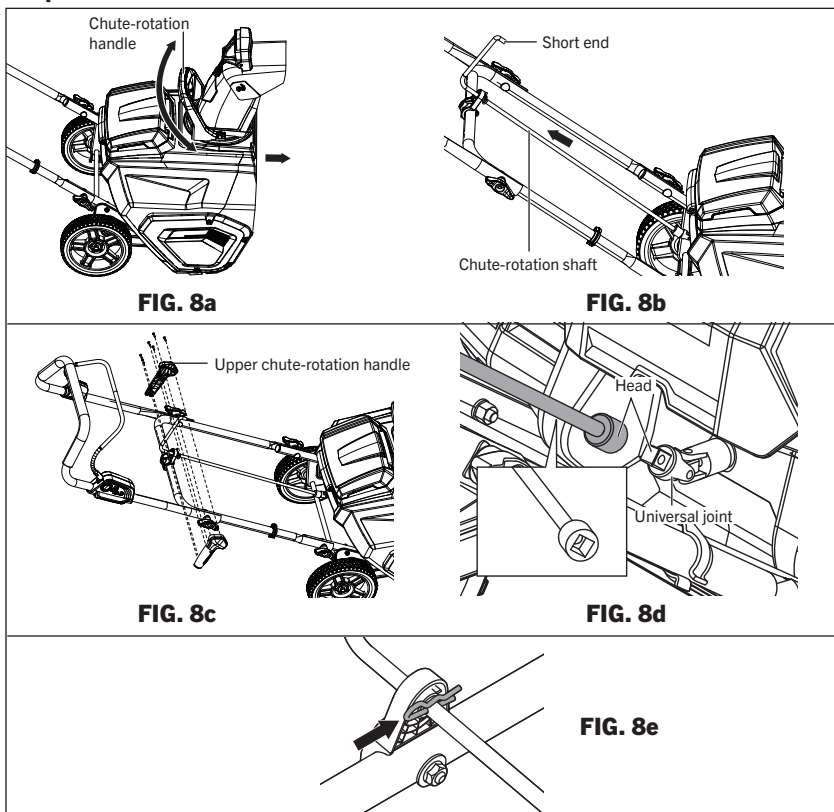


FIG. 7

**INSTALLING THE UPPER CHUTE-ROTATION HANDLE
(FIG. 8a, 8b, 8c, 8d, 8e)**

1. Rotate the chute-rotation handle to make sure the chute discharge opening is facing straight ahead (Fig. 8a).
2. Thread the short end of the chute-rotation shaft through the hole in the supporting seat as shown in (Fig. 8b).
3. Install the left and right halves of the upper chute-rotation handle onto the shaft. Align the holes in both halves of the upper chute-rotation handle. Use a Phillips screwdriver (not included) to securely fasten the left and right halves of the grip handle to the shaft with six screws (Fig. 8c).
4. Make sure that the Upper chute-rotation handle is facing upward as shown in (Fig. 8c).
5. Insert the end of the handle onto the end of the universal joint located under the battery compartment cover as far as it will go (Fig. 8d).
6. Insert the hairpin cotter pin through the hole in the shaft until it snaps into place as shown in (Fig. 8e).

⚠ WARNING: Turn the upper chute-rotation handle to make sure that the chute rotates freely and the discharge opening never points toward the operator or operator's controls.



ADJUSTING THE CHUTE

The chute can be adjusted to change both the direction and the angle of the discharged snow to assist you in moving snow away from one area and placing it in another.

The direction of snow removal can be adjusted up to 180° (Fig. 9).

1. Turn the upper chute-rotation handle or the chute-rotation handle clockwise to rotate the chute to the left.
2. Turn the upper chute-rotation handle or the chute-rotation handle clockwise to rotate the chute to the right.

The throwing distance (or the angle) of the snow thrower is adjusted by moving the chute deflector up or down (Fig. 10). Release start lever before adjusting the chute deflector.

1. To increase the distance that the snow is thrown, squeeze the trigger on the chute-deflector handle, and then raise the chute deflector. Release the trigger on the chute-deflector handle to lock the chute deflector in place (Fig. 10).
2. To decrease the distance that the snow is thrown, simply lower the deflector with the chute-deflector handle.

⚠ WARNING: Do not force the chute so far forward that a gap appears between the deflector and the chute itself. Snow or other debris could be thrown through the gap and back at the operator, resulting in serious personal injury.

⚠ WARNING: Do not adjust the chute deflector while the start lever is engaged. Always release the start lever before adjusting the chute deflector.

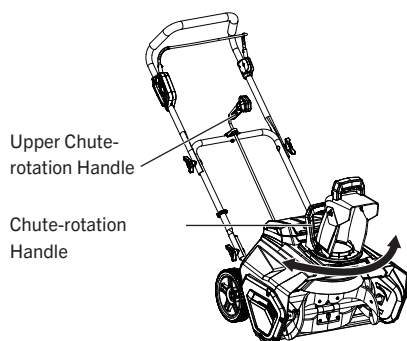


FIG. 9

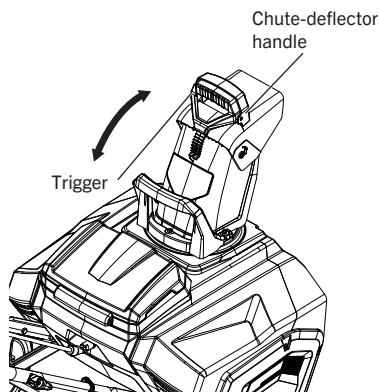


FIG. 10

STARTING/STOPPING THE SNOW THROWER

NOTE: This thrower is equipped with an overload sensor. If the snow thrower becomes overloaded, it will automatically reduce speed or shut off—reduce your clearing width or pace to restore normal operation. This is not a malfunction. refer to page 21 for additional instruction.

⚠ WARNING: Do not attempt to override the operation of the safety button and start lever.

⚠ WARNING: The operation of a snow thrower can result in foreign objects being thrown into your or others' eyes, which can damage eyes severely. Always wear safety glasses while operating the snow thrower or while performing any adjustments or repairs on the snow thrower.

⚠ WARNING: Ensure that other people and pets remain at least 100 ft (30 m) away from the snow thrower when it is in use.

⚠ WARNING: The auger will continue to rotate for a few seconds after the snow thrower is turned off. Allow the auger to stop rotating before starting it again.

NOTICE: Do not rapidly turn the snow thrower off and on.

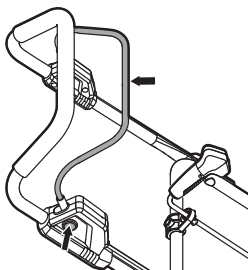
To start the Snow thrower (Fig. 11)

NOTE: The snow thrower will not operate with only one battery installed. Both batteries must be installed for the unit to run.

1. Ensure that the upper handle is securely locked in the unfolded, open position.
2. Insert both batteries into the snow thrower and close the battery-compartment cover.
3. Depress the safety button. With the safety button depressed, pull the start lever to meet the upper handle.
4. Once the snow thrower starts, release the safety button and begin operation.

NOTICE: The machine is started by depressing the safety button first, followed by squeezing the start lever. The reverse operation will not start the machine.

NOTICE: The snow thrower may not properly start if either battery pack temperature is -4°F (-20°C) or lower. If the unit does not start, remove both battery packs from the snow thrower and allow them to warm indoors for 10 minutes or longer. Reinstall both battery packs and try again.

**FIG. 11**

To stop the Snow thrower

1. Fully release the start lever.
2. The electric brake will stop the auger rotation within 3 seconds of the start lever release.

CLEARING A CLOGGED CHUTE

⚠ WARNING: Contact with moving parts is a leading cause of snow thrower injuries. Never attempt to clear the chute or auger with your hands.

To Clear the Chute

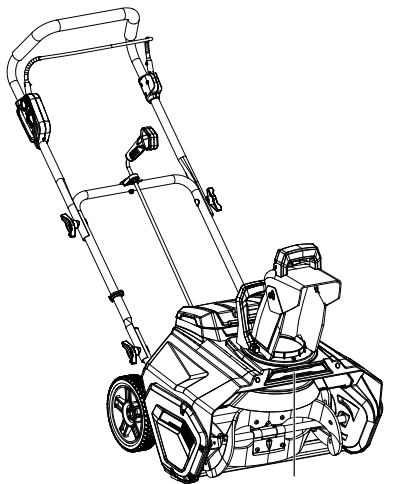
1. Turn the snow thrower off!
2. Remove the battery packs from the snow thrower.
3. Wait 10 seconds to ensure all moving parts have stopped rotating.
4. Always use a clean-out tool, such as a wooden rod or other clearing tools that are commercially available; never use your hands.

LED HEADLIGHT (FIG. 12)

The LED headlight is located on the front of the snow thrower.

Start the snow thrower and the LED work light will automatically turn on. Turn off the snow thrower and the LED work light will automatically turn off.

NOTE: The LED light has a 60-second time delay.



LED Headlight

FIG. 12

OPERATING TIPS

⚠ WARNING: Never use a snow thrower on frozen lakes, rivers, or similar surfaces. Death or serious injury could occur if the ice breaks.

⚠ WARNING: Never use the snow thrower on a rooftop or other unstable surface, which can result in death or serious personal injury.

⚠ WARNING: Do not use snow thrower on ice, which can cause the operator to slip and fall, resulting in possibly serious personal injury.

⚠ WARNING: Do not wear loose clothing, scarves, or jewellery. They can be caught in moving parts and cause death or serious personal injury.

⚠ WARNING: Direct all discharged snow away from all electrical devices to reduce the risk of electric shock or electrocution.

⚠ WARNING: Never point the snow thrower or discharge chute in the direction of people or pets. Thrown snow or other objects can cause serious personal injuries.

⚠ WARNING: 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 thrower in any direction and cause serious personal injury to the operator and others.

⚠ WARNING: Never reach into the discharge chute or place any body part in front of the snow thrower when the unit is operating or when the battery packs are installed. Always ensure all moving parts have stopped and the battery packs have been removed before clearing any obstructions. Failure to follow these instructions can result in serious personal injury.

- If the snow thrower comes in contact with any type of obstruction or debris during use, stop the snow thrower, remove both battery packs, remove the obstruction, and inspect the unit carefully for damage before proceeding.
- 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 thrower 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 upper or chute-rotation handle left and right several times to free the chute from any ice buildup. Make sure to clean off any snow and ice from the chute base.
- 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 snow thrower as instructed in the chapter "Starting/Stopping the Snow thrower" and let it run for a few minutes.

SNOW THROWER OVERLOAD PROTECTION

To prevent overload conditions, do not try to remove too much snow at a time. Slow down your pace or decrease the width of the snow-clearing swath.

Your snow thrower has built-in overload-sensing elements. When the snow thrower is overloaded, the motor will decrease the speed automatically and you will hear a decrease of motor noise. Slow down your pace or narrow the clearing width in this case, after which the motor speed will resume its normal operation automatically. If this remedy does not solve the overload situation, the sensor will shut off the motor automatically. Remove the battery pack from the snow thrower. Check to see if there is snow or ice stuck in the auger and deck, and use a clean-out tool to clear them out as necessary. Reattach the battery pack and restart the snow thrower.

MAINTENANCE

GENERAL

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

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

⚠ WARNING: Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

⚠ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

CLEANING

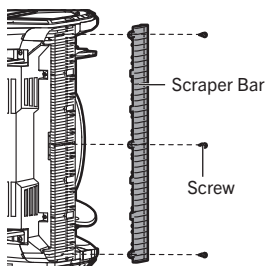
1. Remove the batteries.
2. Brush or blow dust and debris out of the air vents using compressed air or a vacuum. Keep the air vents free of obstructions, sawdust, and wood chips. Do not spray, wash, or immerse the air vents in water.
3. Wipe off the housing and the plastic components using a moist soft cloth. Do not use strong solvents or detergents on the plastic housing or plastic components. Certain household cleaners may cause damage, and may cause a shock hazard.

⚠ WARNING: Upon removal of the battery packs, cover the terminals of each battery pack with electrical tape or heavy-duty adhesive tape. Never touch both terminals with metal objects or parts, as a short circuit may result. Keep batteries away from children. Do not attempt to destroy or disassemble the battery packs or remove any of their components. Rechargeable batteries must be recycled or disposed of properly. Failure to comply with these warnings could result in fire and serious injury.

REPLACING THE SCRAPER BAR (FIG. 13)

⚠ WARNING: Make sure to turn off the snow thrower by releasing the start lever and remove both battery packs before performing any maintenance task on your snow thrower.

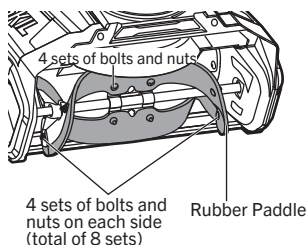
1. The scraper bar is located at the bottom of the snow thrower beneath the auger.
2. Use a Phillips screwdriver (not included) to remove the 3 screws. Detach the worn scraper bar from the snow thrower.
3. Attach the new scraper bar and fasten it securely to the snow thrower with the three screws.

**FIG. 13****REPLACING THE RUBBER PADDLES (FIG. 14)**

⚠ WARNING: Make sure to turn off the snow thrower by releasing the start lever and remove the battery packs before performing any maintenance task on your snow thrower.

NOTICE: When replacing worn rubber paddles, pay close attention to the order in which you remove them. Assemble the new rubber paddles in the reverse order of the disassembly.

1. Use a 3/8" (10 mm) socket wrench (not included) and a 5/32" (4mm) hex key (not included) to remove the 4 sets of nuts and bolts fixed on the middle steel plate, and the 4 sets of nuts and bolts fixed on the steel plate on each side (total of 8 sets), that are used to secure the rubber paddles.
2. Remove the paddles.
3. Install the new rubber paddles in the reverse order of the disassembly. Secure them by tightening the 4 sets of nuts and bolts on each side (total of 8 sets) and the 4 sets in the middle.

**FIG. 14**

STORING THE SNOW THROWER (FIG. 15)

⚠ WARNING: Ensure that all melted snow that may drip from the snow thrower is properly wiped up to prevent a slip and fall hazard.

- Remove the battery packs and store them in a secure location out of the reach of children.

NOTE: When not in use, the battery packs should be stored in an enclosed area where the temperature will not drop below 32°F (0°C).

Before storage, wipe any moisture, dirt, or debris from the battery compartment area.

- Wipe the snow thrower with a clean dry cloth.
- Check all nuts, bolts, knobs, screws, etc., for tightness.
- Inspect moving parts for damage, breakage, and wear. Have any damaged or missing parts repaired or replaced.

The snow thrower can be stored in a compact way.

1. Loosen the wing nuts on both sides and rotate the upper handle to the storage position as shown in Fig. 15.
 2. Tighten the wing nuts to secure the upper handle in place.
- Store the snow thrower in a clean, dry, enclosed place out of the reach of children.
 - Do not store near corrosive materials such as fertilizer or rock salt.

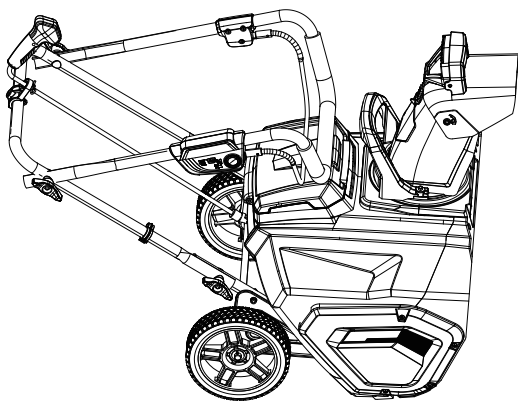
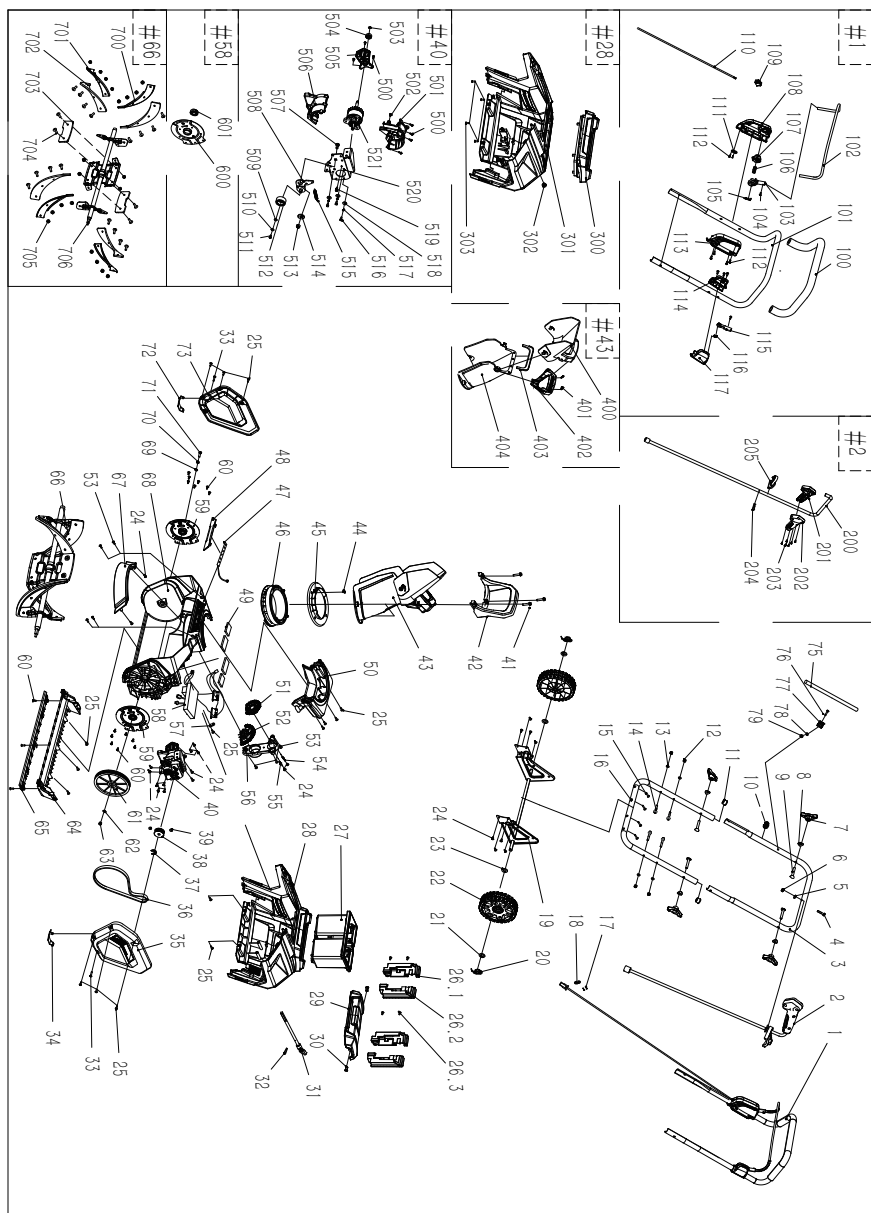


FIG. 15

TROUBLESHOOTING

Problem	Cause	Remedy
Snow thrower does not start.	1. Battery pack charge is low. Recharge both battery packs before use. 2. Safety button is not depressed. 3. Motor overload or battery pack overheating – the snow thrower has stopped working in order to protect internal circuits. 4. The battery pack is too cold.	1. Charge the battery packs. 2. Press the safety button and then squeeze the start lever. 3. Clear the snow or ice stuck in the auger and deck. Wait for the machine/ battery packs to cool down, and then start the machine again. 4. Warm the battery packs to room temperature and then try again.
The motor is running, but the auger does not turn.	The drive belt is worn or damaged.	Replace drive belt.
The snow thrower leaves a layer of snow on the ground after passing.	The scraper bar is worn.	Replace the scraper bar following the section " Replacing the Scraper Bar " in this manual.

EXPLODED VIEW



PARTS LIST



WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the snow thrower.

Any attempt to repair or replace electrical parts on this snow thrower may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665 Monday - Friday from 9am to 5pm Eastern Standard Time.

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	03.1.55.47.08	Upper armrest assembly	1
100	05.1.55.001	Soft grip cover	1
101	06.1.55.03.005	Upper handle	1
102	06.1.55.06.004	Clutch handle	1
103	05.1.55.009	Wire trigger mount (right)	1
104	10.06.03.5.401	Screws	2
105	14.1.55.08.003	Switch box torsion spring	1
106	14.1.55.08.002	Angle adjustment button spring	1
107	05.1.55.008	Switch button	1
108	05.1.55.052	Switch box cover	1
109	13.1.55.04.002	Rocker Switch	1
110	13.1.55.09.007	40v main surgery power cord (without light)	1
111	05.1.55.010	Cable clamp	1
112	10.06.04.5.403	Screws	9
113	05.1.55.053	Switch box lower cover	1
114	05.1.55.054	Wire trigger support box ,right	1
115	05.1.55.003	Wire trigger mount (left)	1
116	14.1.55.08.001	Wire trigger holder torsion spring	1
117	05.1.55.055	Wire trigger support box ,left	1
2	03.1.55.47.12	Snow exit rocker assembly	1
200	07.1.55.03.004	Rocker welding parts	1
201	05.1.55.027	Right handle	1
202	05.1.55.028	Left handle	1
203	10.06.02.5.401	Screws	6
204	10.24.00.9.202	BS plug	1
205	05.1.55.029	Joystick fixing seat	1
3	06.1.55.03.006	Middle handle frame	1
4	10.01.06.1.109	Hexagon head bolts	1
5	10.12.06.1.401	Flat Washer	1
6	10.17.06.1.401	Non-metallic insert lock nuts	1
7	05.1.22.100	Knob	4
8	10.12.08.5.401	Shaped gasket	4
9	10.07.08.1.401	Spring mounting bolt	4
10	05.1.55.012	Cable clamp	1
11	05.1.55.013	Cover	2
12	10.17.06.1.401	Nuts	4
13	10.12.06.1.401	Flat Washer	4

Key #	Part #	Part Name	Quantity
14	10.02.06.1.401	Hexagon flange half thread bolts	4
15	10.06.04.5.409	Screws	4
16	06.1.55.03.007	Lower armrest	1
17	10.06.04.5.403	Screws	2
18	05.1.55.010	Cable clamp	1
19	07.1.55.03.005	Wheel frame welding parts	1
20	10.24.00.9.401	Axle latch	2
21	10.12.13.1.401	Flat Washer	2
22	05.1.55.056	Wheel	2
23	10.12.13.1.402	Flat Washer	2
24	10.06.05.5.401	Screws	23
25	10.06.04.5.403	Screws	20
26.1	STE1320-03-505	JD Socket bracket, left	2
26.2	STE1320-03-506	JD Socket bracket, right	2
26.3	10.06.03.5.402	Screws	4
27	05.1.55.059	Battery warehouse	1
28	03.1.55.47.15	Upper cover assembly	1
300	STE1320-02-504	Intermediate housing	1
301	05.1.55.045	Rocker spacer	1
302	05.1.55.063	Upper auger housing	1
303	10.06.04.5.403	Screws	4
29	05.1.55.057	Transparent cover	1
30	05.1.55.058	Plug	2
31	07.1.55.03.001	Steering rod welding parts	1
32	10.24.00.9.402	Axle pin B	1
33	10.06.04.5.404	Screws	2
34	06.1.55.03.004	Skid plate, left	1
35	05.1.55.019	Belt cover	1
36	10.16.09.011	Multi-V belt	1
37	10.23.08.4.401	Split retaining ring	1
38	06.1.55.00.009	Main pulley	1
39	10.07.06.1.401	Hex socket set screw (cup point)	2
40	03.1.55.47.09	Motor	1
500	10.06.04.5.403	Screws	7
501	05.1.55.066	Air guide cover, upper	1
502	10.06.04.5.410	Screws	1
503	10.23.08.1.001	Shaft retaining ring	1
40.1	03.1.55.47.19	Air guide cover support seat	1
504	10.15.07.1.026	Bearings	1
505	06.1.55.00.031	Support seat	1
506	05.1.55.067	Air guide cover, lower	1
507	10.04.08.1.401	Carriage bolt	1
40.2	03.1.55.47.20	Tension plate assembly	1
508	07.1.55.03.002	Tension plate assembly	1
509	10.12.05.1.401	Flat Washer	1
510	10.13.04.401	Spring Washer	1
511	10.01.05.1.401	Hexagonal bolts	1

Key #	Part #	Part Name	Quantity
512	03.1.55.10.01	Tensioner assembly	1
513	10.17.08.1.401	Locknut	1
514	08.1.42.00.004	Tensioning pads	1
515	14.1.55.08.005	Tension spring	1
516	10.01.05.1.402	Hexagonal bolts	3
517	10.13.04.401	Spring Washer	3
518	10.12.05.1.401	Flat Washer	3
519	10.06.05.5.401	Flat Washer	1
520	06.1.55.03.002	Motor seat	1
521	13.1.55.09.004	Brushless outer rotor motor	1
41	10.02.06.4.401	Hexagon flange self-tapping bolts	3
42	05.1.55.025	Steering handle	1
43	03.1.55.16.02	Snow chute assembly	1
400	05.1.55.046	Snow chute cap	1
401	14.1.55.08.007	Tooth buckle compression spring	2
402	05.1.55.047	Unlock handle	1
403	05.1.55.048	Snow protection plate	1
404	05.1.55.049	Snow chute	1
44	10.06.04.5.402	Screws	1
45	05.1.55.037	Sprocket housing	1
46	05.1.55.036	Sprocket	1
47	13.1.55.01.001	Light bar assembly	1
48	05.1.55.035	LED light cover\transparent	1
49	05.1.55.068	Filter cotton 1	2
50	05.1.55.030	Snow chute fixed rear seat	1
51	05.1.55.033	Gear 1	1
52	05.1.55.032	Gear 2	1
53	10.06.04.5.406	Screws	7
54	10.29.00.105	Steel balls	4
55	14.1.55.08.004	Compression spring	2
56	05.1.55.031	Gear seat	1
57	05.1.55.010	Cable pressure plate	1
58	STE1320-03-702	JD Controller	1
58.1	13.1.55.09.023	Magnetic buckle	2
59	03.1.55.47.10	Auger side panel assembly	2
600	06.1.55.03.001	Auger side panel	1
601	10.15.07.1.010	Bearing	1
60	10.06.04.5.402	Screws	17
61	05.1.55.051	Driven multi-V belt pulley	1
62	10.12.06.1.402	Flat Washer	1
63	10.17.06.1.401	Non-metallic insert lock nuts	1
64	05.1.55.038	Scraper bar A	1
65	05.1.55.040	Scraper bar B	1
66	03.1.55.47.47	Auger Assembly	1
700	06.1.55.06.006	Left connecting plate, auger	1
701	06.1.55.06.007	Right connecting plate, auger	1
702	05.1.55.086	Edge rubber blade, auger	1

Key #	Part #	Part Name	Quantity
703	05.1.55.087	Middle rubber blade, auger	1
704	10.03.06.5.401	Screws	1
705	10.19.06.1.401	Metal hexagon flange nuts	1
706	07.1.55.06.005	Auger weldment	1
67	05.1.55.041	Snow shield	1
68	05.1.55.034	Auger housing	1
69	10.12.06.1.402	Flat Washer	1
70	10.13.04.402	Spring Washer	1
71	10.01.06.1.403	Hexagonal bolt	1
72	621553017	Skid plate, right	1
73	05.1.55.018	Right side cover	1
74	12.000.00.113-R	Cable ties	3
75	STE1320-02-712	Electrostatic wire group	1
76	301030030	Screws	2
77	303050017	External serrated washers	1

WARRANTY

BENCHMARK 40V MAX[†] BRUSHLESS SNOW THROWER

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3 years for the battery and the charger.

This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

22" 40V MAX[†] BRUSHLESS SNOW THROWER



Includes 2 batteries & 1 charger
5 Year Limited Warranty on tool
3 Year Limited Warranty on battery and charger

BENCHMARK™
MC

BENCHMARK TOOLS CANADA

ST. JACOBS, ONTARIO N0B 2N0

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CUSTOMER SERVICE/TECH SUPPORT

1-866-349-8665

5554-076

Made in China



*This Benchmark™ product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) year LIMITED warranty. See Owner's Manual for full details.



c U S
STE1320-03

**READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.**

[†] Uses two 20v Max lithium-ion batteries that deliver an initial battery voltage (measured without a workload) of 40 volts. Nominal voltage is 36V.



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**