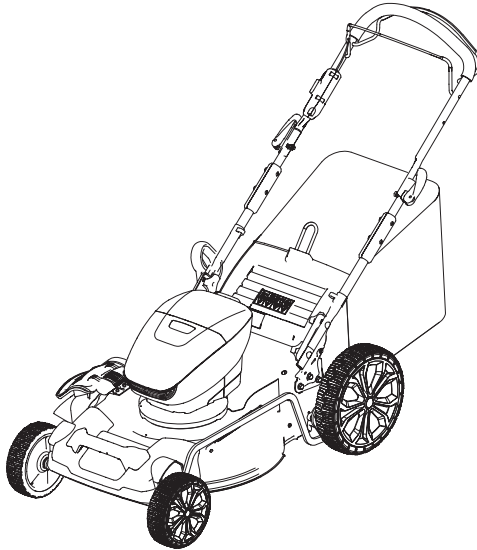




®

60V MAX* 4 AH LAWN MOWER OWNER'S MANUAL



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



**WEAR CSA APPROVED
EYE PROTECTION**



**WEAR EAR
PROTECTION**



**WEAR A
FACE MASK**

LAWN MOWER PRODUCT SPECIFICATIONS

Item No:	5125-021
Voltage/capacity:	60 V d.c. / 4.0 Ah Li-ion
Deck size:	21" (53 cm)
Cutting size:	20" (51 cm)
Cutting height:	7 positions: 1.25" - 3.75" (3.2 cm - 9.5 cm)
Self-propelled:	Yes
Grass bag capacity:	2.0 Bushels/ 65L
No-load speed:	3100 RPM
Booster function:	Yes (3500 RPM)
Wheel size:	8" (20 cm) Front/ 12" (30 cm) Rear
Charger:	Input: 100~240 V, 50/60 Hz, Output: 63 V d.c., 4.0 A
Charging time:	60 Minutes
Weight:	86 lbs (39 kg)
Battery pack type:	5350-019
Charger type:	5350-021

WARNING

1. For safe operation, read and understand the instruction manual.
2. To reduce the risk of electric shock, do not expose to water or operate on ground that is wet.
3. Replace damaged parts immediately.
4. Disconnect and remove battery prior to servicing.
5. Remove the battery pack before servicing or removing blade.
6. Do not reach under blade guard.
7. Be aware of your surroundings when mowing, making sure you are a safe distance away from children and others.
8. Keep safety devices (guards, shields, switches etc.) in place and working
9. Look down and behind before and while moving backwards.
10. Remove objects that could be thrown by the blade.
11. To reduce the risk of eye injury, wear safety glasses.
12. Meet CPSC blade safety requirements.
13. Use only 60V Li-ion battery 5250-019 & 5350-018 and battery charger 5350-021 & 5350-020.

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IMPORTANT SAFETY RULES AND INSTRUCTIONS FOR YOUR LAWN MOWER

READ ALL INSTRUCTIONS BEFORE USING MOWER



WARNING: When using your lawn mower, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

1. Avoid Dangerous Environments - Don't use lawn mowers in damp or wet locations.
2. Don't use in rain.
3. Keep Children Away - All visitors should be kept a safe distance from work area.
4. Dress Properly - Do not wear loose clothing or jewelry. They can get caught in moving parts. Use of rubber gloves and footwear is recommended when working outdoors.
5. Use Safety Glasses - always use face or dust mask if operation is dusty.
6. Use the right Appliance - Do not use lawn mower for any job except that for which it is intended.
7. Don't Force Lawn Mower - It will do the job better and safer at the rate for which it was designed.
8. Don't Overreach - Keep proper footing and balance at all times.
9. Stay Alert - Watch what you are doing. Use common sense. Do not operate lawn mower when you are tired.
10. Disconnect battery pack when not in use, before cleaning or servicing, when changing accessories such as blades, and the like.
11. Store Lawn Mower - Lawn mowers should be stored indoors, in a secure place, out of the reach of children.
12. Maintain Lawn Mower With Care - Keep cutting edges sharp and clean for best and safest performance.
13. Follow instructions for lubricating and changing accessories.
14. Inspect lawn mower cord periodically and if damaged, have it repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
15. Keep guards in place and in working order.
16. Keep blades sharp.
17. Keep hands and feet away from cutting area.
18. Objects struck by the lawn mower blade can cause severe injuries to persons. The lawn should always be carefully examined and cleared of all objects prior to each mowing.
19. If lawn mower strikes a foreign object, follow these steps:
 - a) Stop lawn mower. Release the switch.
 - b) Unplug battery pack.

- c) Inspect for damage.
- d) Repair any damage before restarting and operating the lawn mower.

20. Use identical replacement blades only.

21. Use only genuine spare parts. Only these spare parts are designed and suitable for the product. The use of other spare parts not only voids the warranty, but also endangers yourself and your environment.



WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. For more information, go to www.P65Warnings.ca.gov.

INTENDED USE

This mower has been designed for use on home sized lawns.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

The machine is to be used only for its prescribed purpose, any other use is deemed to be a case of misuse. The user/operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

SAVE THESE INSTRUCTIONS

TRAINING

1. Read the instructions carefully. Make sure you understand the instructions and are familiar with the controls and the correct use of the product.
2. Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the age of the operator.
3. Never operate the product while people, especially children, or pets are nearby.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

PREPARATION

1. While operating the product always wear substantial footwear and long trousers. Do not operate the product when barefoot or wearing open sandals. Avoid wearing clothing that is loose fitting or that has hanging cords or ties.
2. Thoroughly inspect the area where the product is to be used and remove all objects which can be thrown by the product.
3. Before using, always visually inspect to see that the blade, blade bolt and the blade assembly are not worn or damaged. Replace worn or damaged components in sets to preserve balance. Replace damaged or unreadable labels.

GENERAL OPERATION

1. Use the tool only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
2. Operate the product only in daylight or in good artificial light.
3. Do not expose tool and charger to rain or wet conditions. Water entering a tool or charger will increase the risk of electric shock.
4. Avoid operating the product on wet grass.
5. Always be sure of your footing on slopes.
6. Walk, never run.
7. For wheeled rotary mowers, mow across the face of slopes, never up and down.
8. Exercise extreme caution when changing direction on slopes.
9. Do not mow excessively steep slopes.
10. Use extreme caution when reversing or pulling the product towards you.
11. Stop the blade(s) if the appliance has to be tilted for transportation when crossing surfaces other than grass, and when transporting the product to and from the area to be mowed.
12. Never operate the appliance with defective guards or shields, or without safety devices, for example deflectors and/or grass catchers in place.
13. Switch on the motor carefully according to instructions and with feet well away from the blade(s).
14. Do not tilt the product when switching on the motor, except if the product has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part, which is away from the operator. Always ensure that both hands are in the operating position before returning the appliance to the ground.
15. Do not start the machine when standing in front of the discharge opening.
16. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
17. Do not transport the product while the cutting blade is running.
18. Switch off and remove the key/battery pack from the machine. Make sure that all moving parts have come to a complete stop:
 - Whenever you leave the product
 - Before clearing blockages or unclogging chute
 - Before checking, cleaning or working on the product
 - After striking a foreign object. Inspect the product for damage and make repairs before restarting and operating the product
19. If the product starts to vibrate abnormally (check immediately):

- Inspect for damage
- Replace or repair any damaged parts
- Check for and tighten any loose parts

20. Use only with the battery packs and chargers listed below:

Battery pack	Charger
5350-019	5350-021
5350-018	5350-020

SPECIAL OPERATION SAFETY FOR THE CHARGER

1. Recharge only with the charger specified by the manufacturer. Do not use the original charger on other Li-ion batteries or on any other type of battery — fire or explosion may occur.
2. Check the battery charger, cable and plug each time before using. Do not use the battery charger when defects are detected. Do not open the battery charger yourself and have it repaired only by qualified personnel using original spare parts.
3. The charger is designed to use standard household 100~240 V, 50/60 Hz power source. The charger's plug must match the outlet. Never modify the plug in any way. Unmodified plugs and matching outlets will reduce risk of electric shock.
4. Do not abuse the cord of charger. Never use the cord for carrying, pulling or unplugging the charger. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. Make sure the charger cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
6. Keep the battery charger clean. Contamination may cause the danger of electric shock.
7. Protect the battery charger from rain and moisture. The penetration of water in a battery charger increases the risk of electric shock.
8. Do not operate the battery charger on easily inflammable surfaces (e.g. paper, textiles, etc.) or in combustible environments. There is danger of fire due to the heating of the battery charger during charging.
9. The temperature range over which the battery pack can be charged is typically 41°F (5°C) — 13°F (-10°C). Therefore, charging efforts outside the prescribed temperature range may automatically be blocked by the protection circuitry of the battery pack. Longest life and best performance can be obtained if the battery pack is charged in the normal room condition.
10. Disconnect charger from the power supply when not in use. This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening.
11. The charger is for indoor use only.

SPECIAL OPERATION SAFETY FOR THE BATTERY PACK

1. The Li-ion battery pack is not fully charged at the factory. The battery must be fully charged before using it.
2. The battery pack should be recharged when it fails to product sufficient power on jobs which were easily done previously. **DO NOT CONTINUE** using product with its battery in a depleted condition.
3. Do not charge the battery in an air temperature below 41°F (5°C) or above 113°F (45°C). This is important and will prevent serious damage to the battery. Longest life and best performance can be obtained if the battery is charged when air temperature is about 68 °F (20°C).
4. When the machine continues to be used and the battery temperature is above 113°F, (45°C) the battery can not be charged, even if you put on the charger. Let the machine cool down before it can be charged again.
5. Protect the battery pack against heat, e.g. including against continuous sun irradiation and fire. There is a danger of explosion.
6. Do not carry individual battery packs in your pockets or bags, as they could short-circuit against other metal items.
7. If an exposed Li-ion battery pack dose start a fire, it will burn even more violently if it comes into contact with water or even the moisture in the air. **DO NOT** throw water on a burning Li-ion battery! A fire extinguisher must be used.
8. If the battery pack becomes too hot to the touch during charging, disconnect and switch off immediately. Contact Service Centre directly.
9. Do not open the battery yourself. There is danger of a short circuit.
10. When battery pack is not in use, keep it away from other metal objects, paperclips, 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.

MAINTENANCE & STORAGE

1. Keep all nuts, bolts and screws tight to be sure the product is in safe working condition.
2. Check the grass collector frequently for wear or deterioration.
3. Be careful during adjustment of the product to prevent entrapment of the fingers between moving blades and fixed parts of the product.
4. Always allow the product to cool down before storing.
5. When servicing the blades, be aware that even though the power source is switched off, the blades can still be moved.
6. Replace worn or damaged parts for safety. Use only genuine replacement parts and accessories.

7. DO NOT attempt to open the charger and battery pack. There are no customer serviceable parts inside. Return to any authorized service center.
8. Store the appliance with battery pack fully charged at the room temperature, around 68°F (20°C).
9. Every deep discharge cycle decreases the capacity of battery pack. To prolong battery life, it is recommend to charge the battery every 6 months, which over extended periods of time without use.

SERVICE

- a) Have your tool repaired by an authorized service agent. This tool is manufactured in accordance with the relevant safety regulations. To avoid danger, equipment must only be repaired by qualified technicians.
- b) Only use parts and accessories made for this machine by the manufacturer. Failure to do so can result in personal injury.

RESIDUAL RISKS

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

- Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
- Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
- Danger of injury and property damage caused by flying objects.

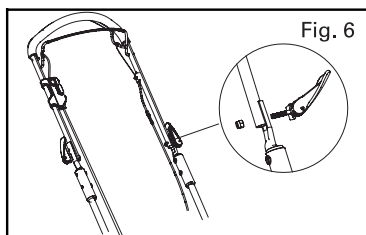
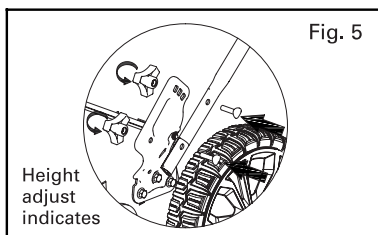


WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

ASSEMBLY

INSTALL THE HANDLE

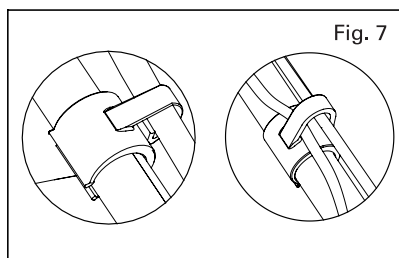
1. Adjust the cutting height by the height adjusting handle to the highest position, see "Adjust the cutting height".
2. Attach a fixing knob to the lower hole of the bracket and then tighten it slightly, not totally fastened. Then attach another fixing knob to the upper hole of the bracket, fasten the knob with the handle height desired and tighten all knobs by hand (See Fig. 5).



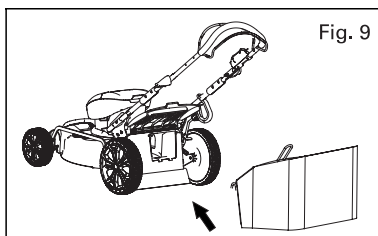
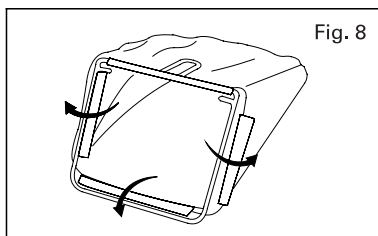
3. Attach the upper handle into place and attach it to lower handle by using handle quick release knobs. Make sure that the handle is securely locked in position. (See Fig. 6)

FITTING CABLE CLIPS

Locate the cable into the cable clip and then clip securely onto the handle. (See Fig. 7)



ASSEMBLE GRASS BAG AND FIT IT ONTO THE MOWER

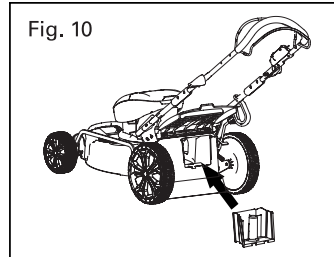


1. Slip the vinyl clip bindings over the frame. (See Fig. 8)
2. Lift the rear flap with one hand and locate the grass bag onto the hooks. Release the rear flap, make sure to secure the grass bag in position. (See Fig. 9)

INSTALLING THE MULCHING PLUG

NOTE: Switch off the tool and make sure that the blade has stopped completely.

1. Lift the rear flap with one hand and push the mulching plug into the rear discharge chute until it is locked in place. Make sure that the mulching plug is locked in position. (See Fig. 10).
2. Release the rear flap, it will close back to cover the mulching plug.

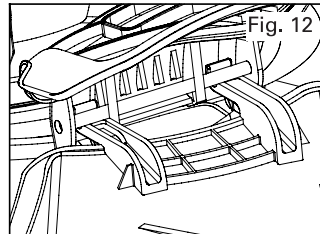
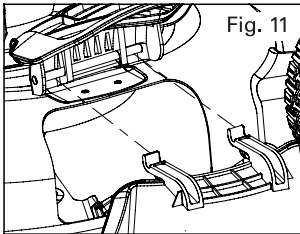


3. If you want disassemble the mulching plug, hold the handle of the mulching plug, press down the hook with finger, meanwhile lift it upward slightly and pull it out.

INSTALLING THE SIDE DISCHARGE DEFLECTOR

NOTE: Switch off the tool and make sure that the blade has stopped completely.

1. Keep the mulching plug in the rear discharge chute.
2. Lift the side discharge guard with one hand and hook in the side discharge deflector with the other hand. (See Fig. 11)
3. Release the side discharge guard to secure the deflector in position. (See Fig. 12).



TO CONVERT THE MOWER

! WARNING! Before changing any accessory, switch off the tool and make sure that the blade has stopped completely!

NOTE: This lawn mower has three functions. These functions can be converted by changing accessory setting as described above. Please see the following chart for detail.

	Mulching plug	Grass bag	Side discharge chute
Rear bagging*	X	✓	X
Mulching*	✓	X	X
Side discharge*	✓	X	✓

"✓": Installed "x": uninstalled

*The following information:

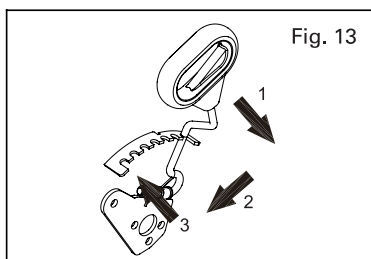
1. Rear bagging: the grass has been cut and collected by grass bag.
2. Mulching: mulch the grass, by cutting into small pieces which then degrade and fertilize the lawn.
3. Side discharge: the grass has been cut and distributed to the side of the machine.

ADJUSTMENT

! **WARNING:** Never operate the cutting height adjustment handle roughly. Switch off the tool and make sure that the blade has stopped completely.

ADJUST THE CUTTING HEIGHT

The cutting height is centrally adjusted by the height adjustment knob.



Different cutting heights can be selected as follows:

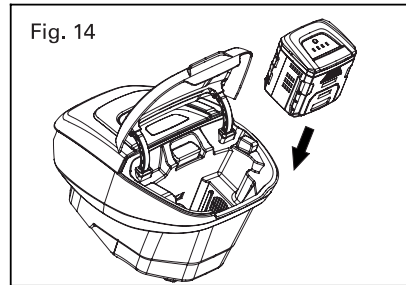
1. Pull the adjusting handle outwards. (See Fig.13).
2. Move it forwards or backwards to select the desired cutting height.
3. Return adjusting handle back into place. Make sure the lever is secured in position. From position 1 to position 7, the cutting height ranges from 1.25" to 3.75" (3.17cm to 9.52cm).

OPERATION

TO INSERT THE BATTERY PACK (SEE FIG. 14)

1. Open the battery pack guard and hold it in place.
2. Align the groove on the battery pack with the corresponding ribs in the receptacle of the device.
3. Depress the battery pack with moderate force until it was locked in place.
4. Close the guard.

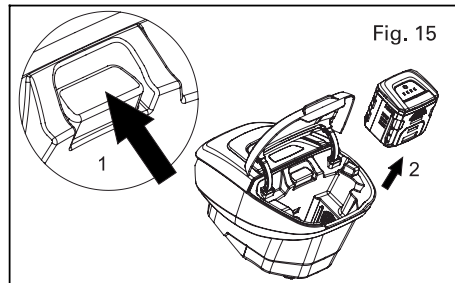
! **WARNING:** Make sure that the tool is "POWER OFF"



TO REMOVE THE BATTERY PACK FROM THE TOOL

1. Open the battery pack guard and hold it in place.
2. Depress the releasing/locking button. The battery pack will pop up automatically.
3. Lift and hold the battery pack while pressing the releasing/locking button again, and then remove the battery pack. (See Fig. 15)

ATTENTION: Battery Installation.



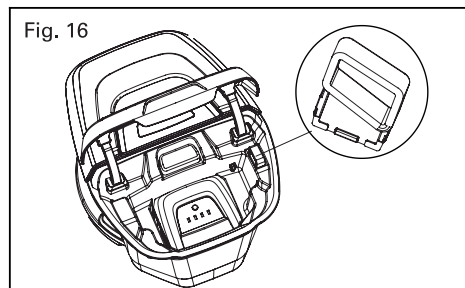
INSTALLATION: Battery lock has 2 positions. Press down firmly until battery is fully inserted.

REMOVAL: Press release button once, hold battery firmly, press release button again, pull battery out.

SAFETY KEY

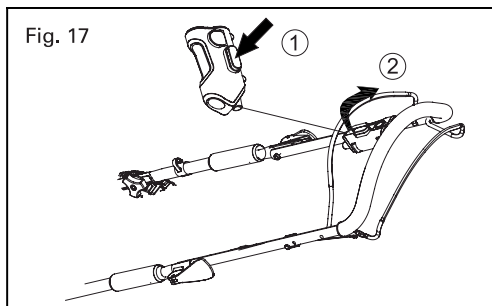
The machine is fitted with a safety key, this prevents the accidental start up of the lawn mower.

The safety key has been designed to disable the lawn mower when the key is removed. (See Fig. 16).



TO SWITCH ON

Depress the safety lock button and keep it in place. Whilst pulling the operator presence control bar towards the handle and hold it in position. The motor will start to work, blade will rotate. Then release the safety lock button. (See Fig. 17).



CAUTION!

1. Do not start the motor in high grass! For high grass, before you start the lawn mower, lift the head of the mower a little, after the mower starts, then put it down to cut the high grass.
2. Before starting the lawn mower, ensure that the battery pack and safety key are correctly installed in place.
3. Before operating the device, remove stones, loose pieces of wood and other objects from the cutting area.

TO SWITCH OFF:

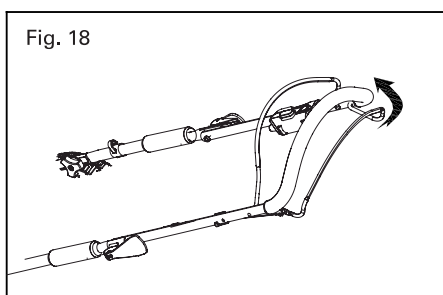
1. Release the operator presence control bar.



WARNING: The blade will rotate on for several seconds after the tool has been switched off.

USE SELF-PROPEL FUNCTION WITH BLADE CUTTING (SEE FIG. 18)

1. Start the mower following the steps above.
2. While holding the operator presence control bar with one hand, then also engage the self-propel switch lever and the machine will then start to move automatically.



3. To stop the moving lawn mower, just release the self-propel bail.

OPERATE THE LAWN MOWER

Operation on a slope.

NOTE: Slopes are a major factor related to slip and-fall accidents, which can result in severe injury.



WARNING: Always be sure of your footing on slopes. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it.

DO:

- Mow across the face of slopes; never mow up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, rocks, hidden objects, or bumps which can cause you to slip or trip. Tall grass can hide obstacles.

DO NOT:

- Do not mow near drop-offs, ditches or embankments; you could lose your footing or balance.
- Do not mow slopes greater than 15 degrees.
- Do not mow on wet grass. Unstable footing could cause slipping.

MOWER OVERLOAD PROTECTION

To prevent overload conditions, do not try to remove too much grass at one time. Slow down your cutting pace or raise the cut height. Your mower has built-in overload circuit protection. When the mower is overloaded, the motor will shut down.

Check to see if grass has collected beneath the deck and clean it if necessary, then restart the mower.

BATTERY HIGH TEMPERATURE PROTECTION

The battery pack will generate heat during operation. The heat dissipates more slowly in hot weather. If the battery temperature exceeds more than 158 °F during operation, the protection circuit will immediately shut down the mower to protect the battery pack to avoid any damages. Release the bail handle, wait until the battery pack cools down, then restart the mower.

EMPTYING THE GRASS BAG

When the grass bag full indicator start to trail during cutting grass, it is time to empty the grass bag.

NOTE: Before taking off the grass bag, switch OFF the power and wait until the blade has come to a stop.

1. To take off the grass bag, use one hand to lift up rear flap and the other hand to grab onto the carry handle. The rear flap automatically falls down after the grass bag is removed.
2. Empty the grass debris in the grass bag, and attach grass bag back to the mower.

NOTE: If any grass residue is caught in the discharge chute, clean it using a brush. Do not remove grass debris in the mower chassis or on the blade by hand or your feet. Instead use suitable tools such as a brush or broom. To ensure that the cut grass can be collected into grass bag, the discharge opening and inside the mower chassis must be

cleaned of any blockage.

CHARGING THE BATTERY PACK

NOTE: Remove the battery pack from the charger after it has been fully charged.

NOTE: Battery should be fully charged before first use.

NOTE: Make sure the main voltage is the same as rating label which is located on the charger. Connect the charger to a power supply. The red LED will light up.

1. To insert the battery pack into the charger, align the raised ribs of the battery pack with the grooves of the charger then push it in. (See Fig. 19)

2. The green LED light of the charger will flash continuously during normal charging.

3. After charging is complete, the green LED will light up.

POWER INDICATOR (FIG. 20)

This Li-Ion battery pack is equipped with a power indicator which is used to show the battery pack's remaining charge. Press the power indicator button to check battery charge as below. The LEDs will stay lit for approximately 4 seconds.

TO OBTAIN THE BEST LIFE FROM THE BATTERY

1. Never allow the battery to completely discharge before recharging. The battery pack should be placed on the charger whenever the battery pack is noticeably running down or the tool no longer performs a task it previously performed.

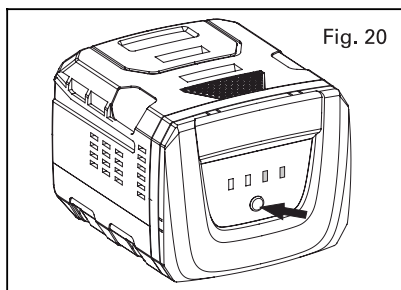
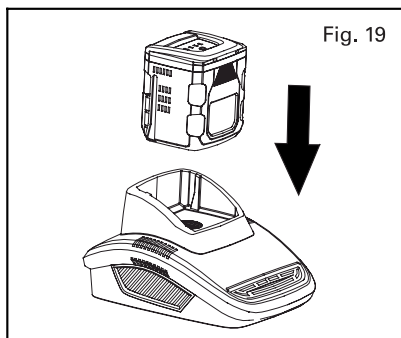
2. Avoid conducting short charges. Make sure that the battery is fully charged each time by allowing the charger to complete its full charging cycle.

3. Avoid allowing loose items like screws or nails etc. to be stored with battery packs as these or similar items can short battery packs and cause a fire or explosion.

4. Always unplug the charger when not in use and store in a dry and secure place.

5. Avoid charging or storing your battery in temperatures below 41°F (5°C) and above 113°F (45°C).

6. After use, allow the battery pack to cool down for approximately 30 minutes before attempting to recharge.



MAINTENANCE AND STORAGE

WARNING! Before performing any maintenance or cleaning work, always ensure that the battery pack/safety key has been removed and wait until the blade has stopped completely and the tool has cooled down.

CLEANING

CLEANING THE PRODUCT

- Use a soft brush to remove any accumulated dust and debris. Wear safety glasses to protect your eyes while cleaning.
- Wipe down the product enclosure with a slightly damp cloth. Do not spray the unit with water. Water may destroy the switch unit and the electric motor.

MAINTENANCE

NOTE: Always wear gardening gloves when handling or working near the sharp blades.

- 1) Keep all nuts, bolts and screws tight to be sure that the machine is in safe working condition.
- 2) Check the grass bag frequently for wear or deterioration.
- 3) Examine the machine and replace worn or damaged parts for safety.

REMOVING/INSTALLING THE BLADE (SEE FIG. 21 & FIG. 22)

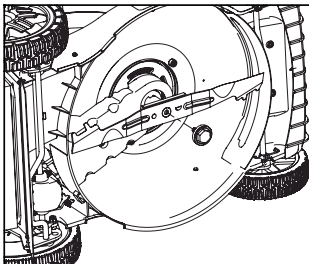


Fig. 21

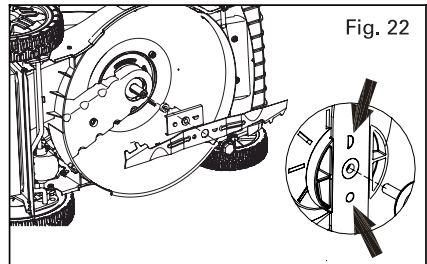


Fig. 22

1. Using a wrench of correct size locate on the blade bolt nut.
2. Wearing heavy gloves hold the blade fixed and turn the wrench counterclockwise and remove the bolt.
3. Fitting the replacement blade correctly with marking facing up and align pegs correctly then fit the bolt and re-tighten the bolt securely to torque 15- 23 ft. lb.

! WARNING! Replace or re-sharpen the mowing blade at the end of the mowing season. Always have the mowing blade re-sharpened or replaced by a customer service center (measurement of imbalance).

Unbalanced blades will cause the lawn mower to vibrate violently-risk of accident!

BATTERY MAINTENANCE:

Use the following procedures to enable optimum usage of the battery:

1. Protect the battery against moisture and water.
2. Store the battery only with in a temperature range from 31 °F to 113 °F. As an example, do not leave the battery in the lawn mower in direct sunlight.
3. Clean the battery occasionally with a soft, clean and dry brush.
4. If you do not use the product for a long time, please charge and discharge the battery pack once every 6 months.

STORAGE AND TRANSPORT

After cleaning the unit thoroughly, store it in a dry room and allow the motor to cool down.

1. Release the handle quick release levers, and fold the handles down.
2. Position the lower handle lock pin into the mower bracket. Lock the handles in place by closing the quick release handle.
3. The machine only can be stored flat

NOTE: Remove the safety key and battery packs. Ensure cables are not trapped when folding/unfolding the handle.

TRANSPORT

Use the original packaging to ship whenever possible.









SAFETY SYMBOLS

The purpose of safety symbols is to draw your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings are not substitutions for proper accident prevention measures.

WARNING: Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as **DANGER**, **WARNING**, and **CAUTION** before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and or serious personal injury.

SAFETY INSTRUCTIONS

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

	To reduce the risk of injury, user must read instruction manual carefully.
	Do not open or remove safety shields while engine is running.
	Keep bystanders away.
	Look behind while backing up.
	Avoid steep slopes.
	Keep fingers and toes away from the rotary mower blades.
	Beware of flying objects that could hit you.
	Remove disabling device before maintenance.



Wear ear protection, eye protection, and gloves when using the product.



Do not expose or operate the tool in rain.



Wait until all machine components have completely stopped before touching them. The blades continue to rotate after the machine is switched off, a rotating blade can cause injury.

TROUBLESHOOTING



WARNING! Before performing any repair work, always ensure that the battery pack/safety key has been removed and wait until the blade has stopped completely and the tool has cooled down.



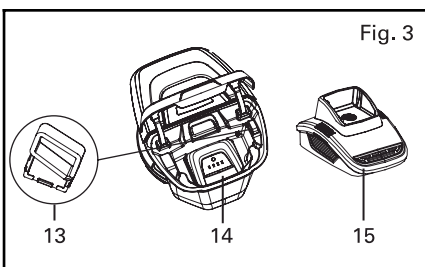
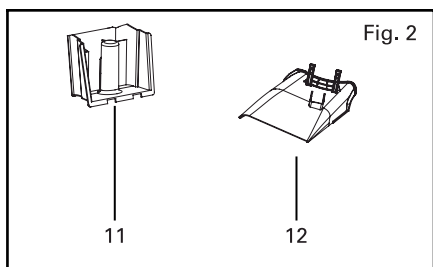
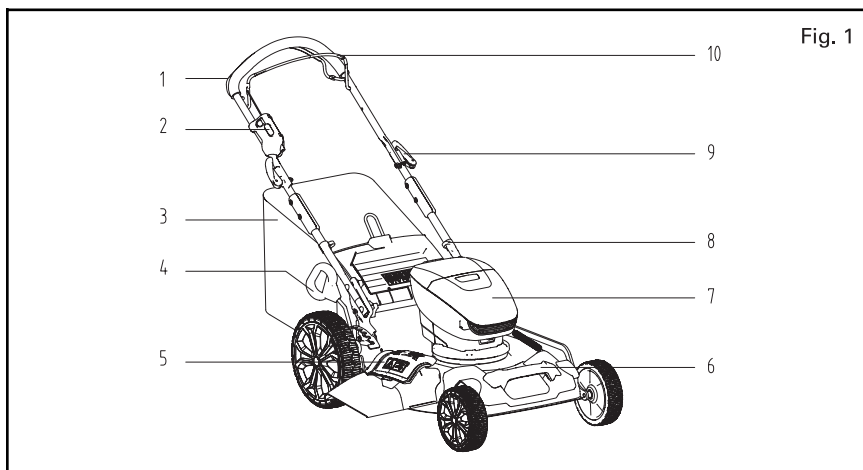
WARNING! Always wear heavy duty gloves when adjusting or cleaning, especially when handling sharp objects.

FAULT/MALFUNCTION	CAUSE	REMEDY
Mower fails to start.	Safety key is not inserted.	Insert safety key.
	Battery is not correctly inserted.	Remove the battery and reinsert.
	Mower standing in high grass.	Start motor on shorter grass or already mowed area; change cutting height if necessary.
	The mower housing is clogged.	Clean housing so that the blade can move freely.
	Battery has no power.	Check and recharge battery.
Mower stops working / loses power.	Cutting height is improper.	Adjust the cutting height.
	Discharge chute/ housing is blocked.	Clean the discharge chute/ housing.
	Cutting blade is worn or damaged.	Replace with new blade from dealer service centre.
	Battery performance decreasing.	Check the battery performance and charge it if necessary.
	Mower overloaded – red light displayed switch box.	Wait until reset occurs – Green light displayed on switchbox.
Grass bag is not filled sufficiently.	Cutting height is too low.	Adjust and increase cutting height.
	The lawn / grass is wet	Allow the lawn to dry.
	Discharge chute/ housing is blocked.	Clean the discharge chute/ housing.
	Underside of the mower deck is clogged.	Clean the underside of the mower deck.
	Cutting blade is worn or damaged.	Replace it by the customer service center.
Mower vibrating at higher speed.	Cutting blade is unbalanced.	Balance the blade by grinding each cutting edge equality.
	Blade is loosened/incorrectly fitted.	Tighten the blade bolt.
Mower does not mulch properly.	Cutting height set to low.	Adjust cutting height.
	Deck has wet grass on underside of deck.	Clean underside of deck and wait until grass is dry.
Mower cuts unevenly.	The blade is damaged.	Sharpen the blade or replace.
	Blade is assembled incorrectly.	Re-assemble blade correctly.

PARTS LIST

NOTICE!

1. Remove everything from carton except the cordless lawn mower.
2. Open carton completely by cutting each corner from top to bottom.
3. Remove the lawn mower from carton.



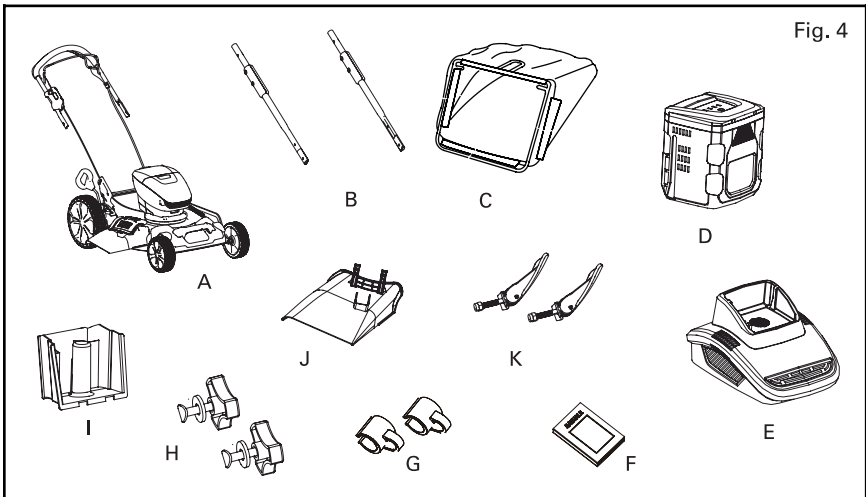
- | | |
|--------------------------------|-----------------------------------|
| 1. Self-propelled switch lever | 9. Handle quick-release knob |
| 2. Safety lock button | 10. Operator presence control bar |
| 3. Grass bag | 11. Mulching plug |
| 4. Height adjustment knob | 12. Side discharge deflector |
| 5. Side discharge guard | 13. Safety key |
| 6. Front bumper handle | 14. Battery pack |
| 7. Power head | 15. Battery charger |
| 8. Cable clip | |

CONTENTS OF BOX

Carefully remove the machine and parts from its packaging. Identify all the parts packaged in the carton against the parts list. Please contact our customer service center at: 1-833-818-4111 - Monday through Friday, 9am – 5pm, Eastern Standard Time, if anything is missing.

WARNING! If any parts are damaged or missing, do not operate this tool until the missing parts are replaced. Failure to heed this warning could result in serious personal injury.

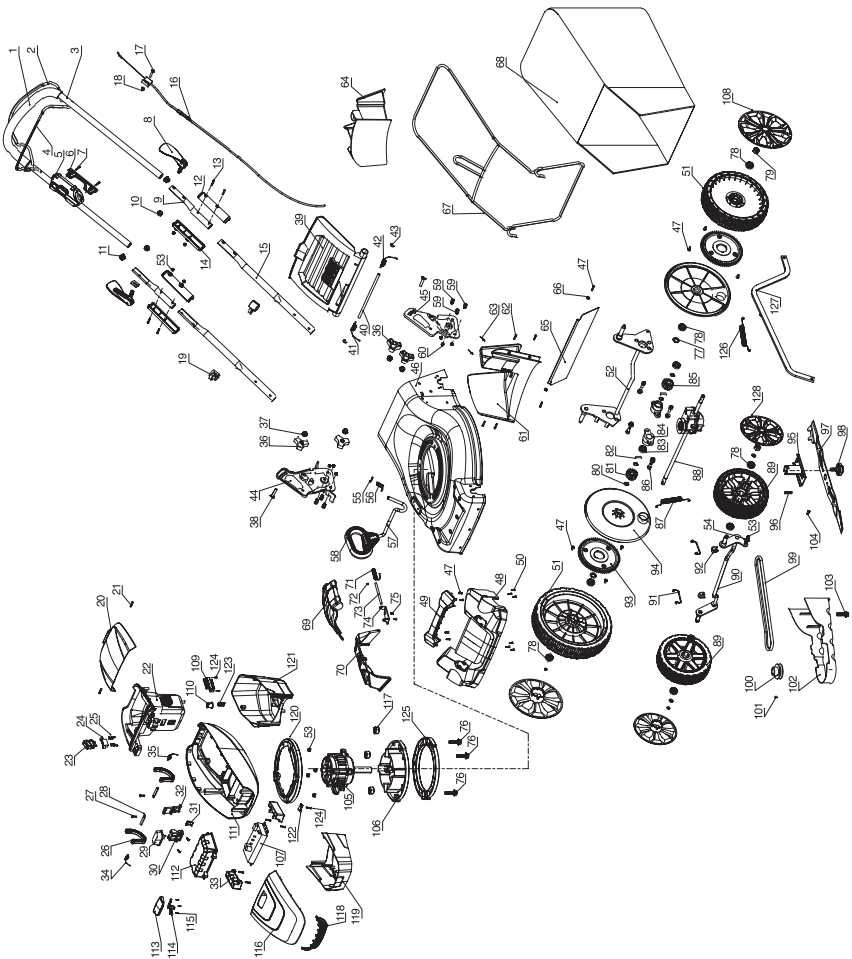
NOTE! Always recycle the packaging in accordance with local recycling programs.



- A. Main machine x 1
- B. Lower handle x 2
- C. Grass bag x 1
- D. Battery pack x 1
- E. Charger x 1
- F. Manual x 1

- G. Cable clip x 2
- H. Lower handle fixing knob x 2
- I. Mulching plug x 1
- J. Side discharge deflector x 1
- K. Handle quick-release knob x 2

EXPLODED VIEW



PARTS LIST (EXPLODED VIEW)

No.	PART CODE	DESCRIPTION	Qty
01	1052587000	Foam	01
02	1251900000	Pull rod	01
03	1253719000	Upper handle	01
04	1251899000	Switch bar	01
05	1003005000	Switch box	01
06	1052356000	Switch bar cover	01
07	2600538000	Cross recessed pan head tapping screw ST4.2X25	02
08	1002353000	Quick lock	02
09	1251877000	Lower handle	02
10	2600154000	Nut M8	02
11	1051123000	Lower handle insert	02
12	1052323000	Insulation bottom cover	02
13	2601140000	Screw	04
14	1052322000	Insulation top cover	01
15	1253718000	Bottom handle	02
16	1003127000	Cord switch	01
17	2600081000	Bolt M6X35	01
18	2600147000	Acorn nut M6	01
19	1052673000	Cord clip	02
20	1053980000	Rear flap	01
21	2601213000	Screw	02
22	1054622000	Battery housing	01
23	1053787000	Key assembly	01
24	1053781000	Key box	01
25	1252759000	Key switch	02
26	1053988000	Axle bracket	02
27	2600533000	Cross recessed pan head tapping screw	32
28	1252879000	Shaft	02
29	1054618000	Button	01
30	1054620000	Supporter	01
31	1350421000	Lock torsional spring	01
32	1054619000	Battery pack release/lock button	01
33	1053974000	Supporter	02

No.	PART CODE	DESCRIPTION	Qty
34	1350371000	Spring	01
35	1350370000	Spring	01
36	1054854000	Knob	04
37	2600127000	Nut M8	04
38	1250476000	Arc head bolt	02
39	1050647000	Rear guard	01
40	1252764000	Rear flap shaft	01
41	1350406000	R-spring	01
42	1350405000	L-spring	01
43	2600709000	E rings 6	02
44	1002196000	Right handle base	01
45	1252763000	Left support plate	01
46	1002192000	Deck	01
47	2600721000	Screw	12
48	1053763000	Front cover	01
49	1052766000	Front handle	01
50	1250862000	Cross recessed pan head tapping screw st4.8x13 (type F)	06
51	1051267000	300mm Wheel	02
52	1002200000	Rear shaft assembly	01
53	2600140000	Self lock nut M6	10
54	2600427000	Washer Φ 8	06
55	2600711000	Split damping ring 8	01
56	1350089000	Spring for hi-adjusting	01
57	1002205000	Height adjusting lever assembly	01
58	1051262000	Hi-adjusting lever	01
59	2600111000	Hexagon flange bolts, heavy series M8X16	06
60	2600141000	Type 1 non-metallic hexagon lock nut M8	10
61	1052661000	Rear wall	01
62	2600720000	Self tapping screw and plain washer combination ST4.8X13 (F)	06
63	2600676000	Open type flat round head core pulling rivet 4X16	02
64	1050640000	Mulching plug	01
65	1052726000	Fender board	01
66	2600426000	Washer Φ 6	02
67	1251934000	Grass bag frame	01

No.	PART CODE	DESCRIPTION	Qty
68	1054062000	Grass bag	01
69	1050774000	Side discharge cover	01
70	1050775000	Side discharge chute	01
71	1350101000	Side discharge torsion spring	01
72	1050776000	Spring cap	01
73	1250515000	Rotation shaft 1	01
74	1250514000	Side discharge bracket	01
75	2600037000	Bolt M6X10	02
76	2600245000	Screw	03
77	2600458000	Spring washer 12	04
78	1250310000	Stamping bearing	08
79	2600173000	Non metallic hexagon flange lock nut M8	04
80	2600687000	Circlips for shaft 12	04
81	1000872000	Left drive gear	01
82	1253121000	Pin	02
83	2600817000	Deep groove ball bearing 6001-2z	02
84	1200175000	Tube	02
85	1000873000	Right drive gear	01
86	2600232000	Hexagon socket cap screw M8X25	04
87	1251009000	Tension spring assembly	01
88	1001244000	Gear box assembly	01
89	1050643000	Wheel assembly	02
90	1002199000	Front shaft assembly	01
91	1250469000	Spring hook	02
92	1050642000	Shaft bush	02
93	1251016000	Driven gear	02
94	1051268000	Dust proof cover	02
95	1002533000	Coupling	01
96	1250850000	Square key	01
97	1253194000	Blade	01
98	1000937000	Blade bolt M9x1	01
99	1400145000	V belt with teeth	01
100	1054769000	Belt wheel	01
101	1251280000	Key	01

No.	PART CODE	DESCRIPTION	Qty
102	1054017000	Belt cover	01
103	2600100000	Hexagon flange bolts, heavy series M6X12	01
104	1251057000	Set screw	01
105	2401283000	Motor	01
106	1002130000	Motor bottom cover	01
107	2401281000	PCB	01
108	1055295000	Rear wheel cap	02
109	1003004000	Terminals	01
110	1052317000	Spring pin	01
111	1053981000	Deck housing	01
112	1053990000	Cover	01
113	1053991000	Cover	01
114	1253717000	Clamp	01
115	2600468000	Screw	03
116	1053979000	Cover-top	01
117	2600142000	Nut M10	03
118	1053984000	Front cover	01
119	1053985000	Front base	01
120	1053987000	Base	01
121	1053986000	Rear base	01
122	1251621000	Line card	01
123	1350218000	Spring	01
124	2600501000	Screw	05
125	1052706000	Plastic washer	01
126	1350254000	Connecting rod spring	01
127	1001213000	Connecting rod assembly	01
128	1055294000	Wheel cap 200mm	02

BATTERY PACK PRODUCT SPECIFICATIONS

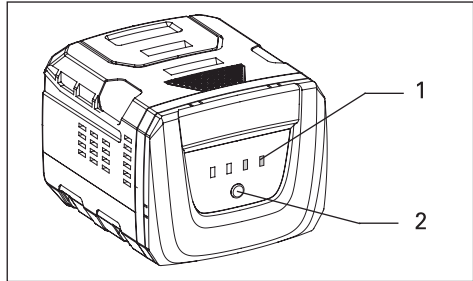
Voltage:	60 V d.c.
Capacity:	4.0 Ah

PRODUCT FEATURES

1. Green LED lights
2. Indicator button

INTENDED USE

The Benchmark 60v Lithium-Ion Battery Pack can only be matched for the Benchmark 60v Lithium-Ion Battery Charger.



PRODUCT DESCRIPTION AND SPECIFICATIONS

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save these instructions for later use.** Use the battery pack only when you fully understand and can perform all functions without limitation, or have received appropriate instructions.

SAFETY NOTES

1. Use only Benchmark 60V Li-ion battery charger. The Li-ion battery pack is not fully charged at the factory. Before attempting to use it, it must be fully charged first.
2. The battery pack should be recharged when it fails to produce sufficient power for the operation of the tool. **DO NOT CONTINUE** using product with its battery in a depleted condition.
3. Do not charge the battery in an air temperature below 32°F (0°C) or above 113°F (45°C). This is important and will prevent serious damage to the battery. Longest life and best performance can be obtained if the battery is charged when air temperature is about 68° F (20°C).
4. When the machine continues to be used and the battery temperature is above 113° F (45°C), the battery cannot be charged, even if you put it on the charger. Let the machine cool off before you charge it again.
5. Protect the battery pack against heat, e.g. including against continuous sun exposure and fire. There is a danger of explosion.
6. Do not carry individual battery packs in your pockets or bags, as they could short-circuit against other metal items.

7. If an exposed Li-ion battery pack does start a fire, it will burn even more violently if it comes into contact with water or even the moisture in the air. Do Not throw water on a burning Li-ion battery! A fire extinguisher must be used.

8. If the battery pack becomes too hot to the touch during charging, disconnect and switch off immediately. Contact service center directly.

9. Do not open the battery yourself. There is danger of a short circuit.

10. When the battery pack is not in use, keep it away from other metal objects like paperclips, coins, keys, nails, screws or other small metal objects, which can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

11. This tool 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 appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

12. Cleaning and user maintenance of the battery pack shall not be made by children without supervision.

13. 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.

14. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

15. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130°C (266°F) may cause explosion. The temperature of 130°C can be replaced by the temperature of 266°F.

16. 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.

17. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

18. 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.

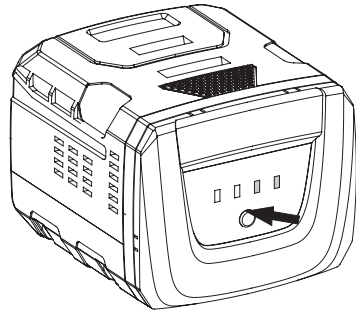


WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. For more information, go to www.P65Warnings.ca.gov.

OPERATION

1. When you push the power indicator button, the green LED lights will show the power remaining.

2. Once the battery pack is correctly located in the charger, the 4 green LED lights of the battery pack will continuously be lit to indicate the charging process. At the same time the green LED light of the charger will flash continuously during normal charging.



TO OBTAIN THE BEST LIFE FROM THE BATTERY

- Avoid the battery from discharging completely. If the battery is to be unused for a long period, charge it to 80% capacity at least before storage.
- Avoid carrying out short battery charges. Make sure that the battery is fully charged every time by allowing the charger to complete its full charging cycle.
- Avoid allowing loose items like screws or nails etc. to be stored with battery packs as these or similar items can make the battery packs short-circuited which causes a fire or explosion.
- Always unplug the charger when not in use and store in a dry secure place.

Avoid charging or storing your battery in temperatures below 32°F (0°C) and above 113°F (45°C).

- Cool down hot battery pack from a just-operated tool for approximately 30 minutes before attempting to recharge.
- Do not store batteries in a garage or shed over the winter as it will damage battery life.







MAINTENANCE AND SERVICE

- Occasionally clean the battery using a soft, clean and dry brush.

DISPOSAL

Battery packs, accessories and packaging should be sorted for environmentally-friendly recycling. Do not dispose of battery chargers into household waste!

SAFETY SYMBOLS

	Read this manual and thoroughly understand and familiarize yourself with this product before using it.
	Batteries contain Li-ion. Dispose of the battery according to your municipal guidelines.
	Do not put into water.
	Do not put into fire.
	Do not subject the battery to sunlight over long periods and do not leave it on a heater (max. 113°F or 45°C).
	Do not expose or operate the tool in rain.

BATTERY CHARGER PRODUCT SPECIFICATIONS

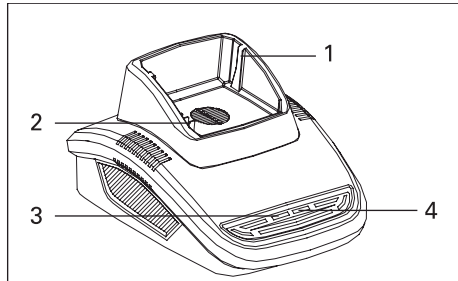
Input:	100-240 V, 50/60 Hz
Output:	63 V d.c. 4 A

PRODUCT FEATURES

1. Battery pack guide groove
2. Battery pack connect terminals
3. Green LED indicator
4. Red LED indicator

INTENDED USE

The Benchmark 60v Lithium-Ion Battery Charger can only be matched for the Benchmark 60v Lithium-Ion Battery Pack.



PRODUCT DESCRIPTION AND SPECIFICATIONS



WARNING! IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS**—This manual contains important safety and operating instructions for battery charger.
2. Before using battery charger, read all instructions and cautionary markings on battery charger, battery, and product using battery.
3. **CAUTION**—To reduce risk of injury, charge only Benchmark 60v Lithium-Ion Batteries. Other types of batteries may burst causing personal injury and damage.

SAFETY NOTES

1. Use only Benchmark 60v Lithium-Ion battery pack. Do not use the original charger on other Li-ion batteries or on any other type of battery—fire or explosion may occur.
2. Check the battery charger, cable and plug each time before using. Do not use the battery charger when defects are detected. Do not open the battery charger yourself and have it repaired only by qualified personnel using original spare parts.
3. The charger is designed to use standard household 100-240 V~50/60Hz power source. The charger's plug must match the outlet. Never modify the plug in anyway. Unmodified plugs and matching outlets will reduce risk of electric shock.
4. Do not abuse the cord charger. Never use the cord for carrying, pulling or unplugging the charger. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

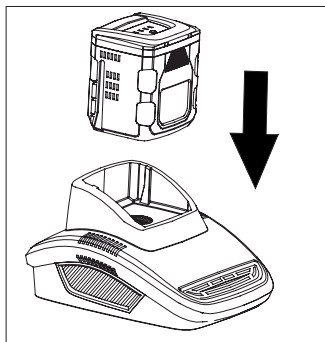
5. Make sure the charger cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
6. Keep the battery charger clean. Contamination may cause the danger of electric shock.
7. Protect the battery charger away from rain and moisture. The penetration of water in a battery charger increases the risk of electric shock.
8. Do not operate the battery charger on easily inflammable surfaces (e.g. paper, textiles, etc.) or in combustible environments. There is danger of fire due to the heating of the battery charger during charging.
9. The temperature range over which the battery pack can be charged is typically from 32°F (0°C) to 113°F (45°C). Therefore, charging efforts outside the prescribed temperature range may automatically be blocked by the protection circuitry of the battery pack. Longest life and best performance can be obtained if the battery pack is charged in the normal room condition.
10. Disconnect charger from the power supply when not in use. This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening.
11. This tool 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 appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.
12. Cleaning and user maintenance of the battery charger shall not be made by children without supervision.

! **WARNING:** Charger terminals and related accessories may contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. For more information, go to www.P65Warnings.ca.gov.

OPERATION

NOTE:

- A new battery pack is supplied partially charged. To ensure the best performance, charge the battery completely before first use.
- Make sure the main voltage is the same as rating label which is located on the charger.
- Remove the battery pack from the charger after it has been fully charged.



1. Connect the charger to a power supply, the red and green LED lights will flash alternately for about 2 seconds. And then the red LED light on the charger will be on.
2. To insert the battery pack into the charger, align the grooves on the battery pack with the raised ribs in the opening of the charger. Then press the battery pack downward with a moderate force.
3. Once the battery pack is correctly located in the charger, the green LED light of the charger will flash continuously during normal charging.
4. When charging is complete, green LED light of the charger will be on.
5. If you encounter one of following kind of situations, the red LED light of charger will flash.
 - Wrong communication. It refers to poor connection between charger and battery pack.
 - Faulty with battery pack. The battery pack need to be repaired by the customer service center.
6. The charger has over-temperature protection. When the red and green LEDs flash alternately for more than 3 seconds, please wait until the red LED lights up, and then the charger resumes normal work.







MAINTENANCE AND SERVICE

- Occasionally clean the charger using a soft, clean and dry brush.

DISPOSAL

Battery chargers, accessories and packaging should be sorted for environmentally-friendly recycling. Do not dispose of battery chargers into household waste!

SAFETY SYMBOLS

	Read this manual and thoroughly understand and familiarize yourself with this product before using it.
	The charger is for indoor use only.
	Double insulation.
	Protective 4A limited.
	Protective 5A limited.
	Do not expose or operate the tool in rain.

TROUBLESHOOTING

FAULT/MALFUNCTION	CAUSE	REMEDY
Battery pack can not be charged.	Battery not properly inserted.	Properly insert battery pack into charger till the red LED lights on.
	Battery contacts contaminated.	Clean the battery contacts or replace the battery pack.
	Battery pack defective.	Replace a new battery pack.
Charger has no response when the power is on.	Main plug of battery charger not plugged in properly.	Insert main plug fully into the power socket.
	Power socket, main cable or battery charger defective.	Check the main voltage; have the battery charger checked by an authorized after-sales service or qualified agent.

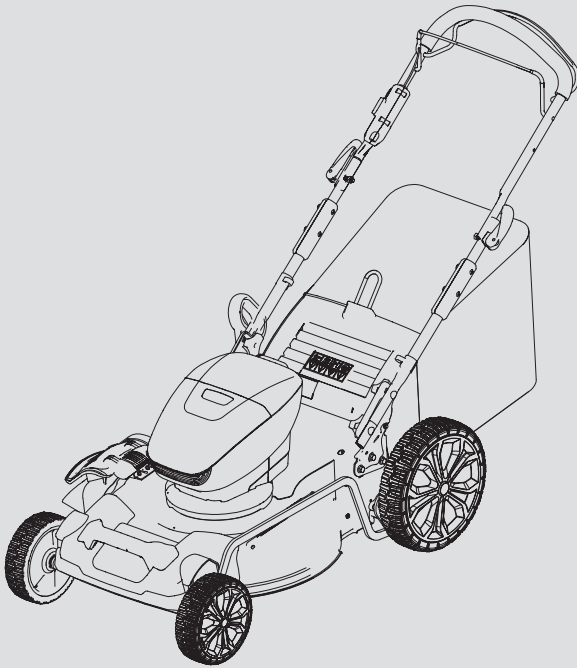
WARRANTY

BENCHMARK 60V MAX* 4 AH LAWN MOWER WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, it has a five-year repair warranty with the original bill of sale. Three years for battery and charger.

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

60V MAX* 4 AH LAWN MOWER



EXCLUSIVE TO HOME HARDWARE

For information on the entire lineup of Benchmark power tools visit homehardware.ca or your local Home Hardware retail store.

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