

BLACK+ DECKER™

40v Max* Lithium Cordless Mower

INSTRUCTION MANUAL

CATALOG NUMBER

CM2040

CM2045



Thank you for choosing BLACK+DECKER!

PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON.

If you have a question or experience a problem with your BLACK+DECKER purchase, go to <http://www.blackanddecker.com/Instantanswers>

If you can't find the answer or do not have access to the Internet, call 1-800-544-6986 from 8 a.m. to 5 p.m. EST Mon. - Fri. to speak with an agent.

Please have the catalog number available when you call.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

VEA EL ESPAÑOL EN LA CONTRAPORTADA.

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA.

ADVERTENCIA: LÉASE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

*Maximum initial battery pack voltage (measured without a workload) is 40 volts. The nominal voltage is 36.

KEY INFORMATION YOU SHOULD KNOW:

- Do not operate mower unless handle is locked into position.
- For best cutting results, keep blade sharpened and balanced.
- Inspect and thoroughly clean your mower after each use (a deck with caked grass will degrade performance).
- Make sure mowing area is clear of other persons or pets prior to starting and during operation.

To register your new product, visit
www.BlackandDecker.com/NewOwner

SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

⚠ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE: Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

The following are explanations of important safety hazard pictorials on the mower.



1. User must read and understand the instruction manual.



2. To avoid the risk of serious injury do not mow up and down slopes. Always mow across slopes.



3. To avoid the risk of injury to bystanders keep all persons and pets at a safe distance from the mower while operating.



4. Rotating blades can cause serious injury. Keep hands and feet clear of mower deck and discharge opening at all times. Always be sure blade has stopped (wait for the blade to stop rotating (approximately 3 seconds) after releasing bail handle and removing the safety key) before removing and replacing grass catcher, cleaning, servicing, transporting or lifting the mower.



5. Objects struck by mower blade can cause serious injury. Stay behind the handle when the motor is running. Always ensure persons and pets are

clear of the discharge from the mower while operating. Always inspect mowing area before mowing and remove objects that could be thrown by blade. Release bail handle to turn mower off and wait for the blade to stop rotating (approximately 3 seconds) before crossing walk, roads, patio and gravel drives.

⚠ WARNING: IMPORTANT SAFETY WARNINGS AND INSTRUCTIONS

⚠ WARNING: WHEN USING

ELECTRIC LAWN MOWERS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS

TO REDUCE RISK OF INJURY:

- Before any use, be sure everyone using this tool reads and understands all safety instructions and other information contained in this manual.
- Save these instructions and review frequently prior to use and in instructing others.

⚠ DANGER: IMPORTANT SAFE PRACTICES FOR WALK-BEHIND MOWERS

This mower is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

GENERAL OPERATION

1. Read, understand, and follow all instructions on the mower and in the instruction manual before starting.
2. Do not put hands or feet near or under the mower. Keep clear of the discharge opening at all times.
3. Only allow responsible adults, who are familiar with the instructions, to operate this mower.
4. Clear the area where the mower is to be used of objects such as rocks, sticks, wire, toys, bones, etc., which could be thrown by the blade. Objects struck by the blade can cause severe injury to persons. Stay behind the handle when the motor is running.
5. Be sure the area surrounding the mower is clear of bystanders before operating. All bystanders and pets should be kept at a safe distance. Stop the mower if anyone enters the area surrounding the mower.
6. Do not operate mower barefooted or

- while wearing sandals. Always wear substantial footwear.
7. Do not pull mower backward unless absolutely necessary. Always look down and behind before and while moving backward.
 8. Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Release bail handle to turn mower off and stop the blade when crossing gravel surfaces.
 9. Do not operate mower without the entire grass catcher, discharge guard, rear guard, or other safety protective devices in place and working. Periodically check all guards and safety protective devices to ensure they are in good working order and will operate properly and perform their intended function. Replace a damaged latch, guard or other safety device before further use.
 10. Never leave a running mower unattended.
 11. Always release the bail handle to stop the motor and wait until the blade comes to a complete stop and remove the safety key before cleaning the mower, removing the grass catcher, un-clogging the discharge guard, when leaving the mower, or before making any adjustments, repairs or inspections.
 12. Operate mower only in daylight or good artificial light when objects in the path of the blade are clearly visible from the operating area of the mower.
 13. Do not operate mower while under the influence of alcohol or drugs, or when you are tired or ill. Always stay alert, watch what you are doing, and use common sense.
 14. Avoid dangerous environments. Never operate mower in damp or wet grass, never use mower in the rain. Always be sure of your footing; walk; never run.
 15. Disengage the drive system, if so equipped, before starting the motor.
 16. If the mower should start to vibrate abnormally, release the bail handle, wait for the blade to stop and remove the safety key and battery pack, then check for the cause immediately. Vibration is generally a warning of trouble.
 17. Always wear proper eye and respiratory protection when operating the mower.
 18. The use of any accessory or attachment not recommended for use with this mower could be hazardous. Only use accessories approved by BLACK+DECKER.
 19. Never overreach while operating the

mower. Always be sure to keep proper footing and balance at all times while operating the mower.

SLOPE OPERATION

Slopes are a major factor related to slip and fall accidents, which can result in severe injury. Operation on all slopes requires extra caution. If you feel uneasy on a slope, do not mow it.

1. Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes.
2. Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause a slip and fall accident. Tall grass can hide obstacles.
3. Do not mow on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident.
4. Do not mow near drop-offs, ditches, or embankments. You could lose your footing or balance.

CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the mower and the mowing activity. Never assume that children will remain where you last saw them.

1. Keep children out of the mowing area and under the watchful care of a responsible adult other than the operator.
2. Be alert and turn mower off if a child enters the area.
3. Never allow children to operate the mower.
4. Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

GENERAL SERVICE

1. Never operate mower in a closed area.
2. Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
3. Never tamper with safety devices. Check their proper operation regularly.
4. Keep mower free of grass, leaves, or other debris build-up. Allow mower to cool before storing.
5. If you strike a foreign object, release bail handle to turn mower off, wait for the blade to stop and remove the safety key and battery pack, then inspect the mower. Repair, any damage, before starting and operating the mower.
6. Never make any adjustments or repairs with the motor running or while the safety key is in the mower.
7. Always remove safety key and battery pack before adjusting, cleaning, repairing, inspecting, transporting, storing or leaving the mower.
8. Check grass catcher components and

the discharge guard frequently and when necessary replace with BLACK+DECKER recommended parts only.

9. Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
10. Maintain or replace safety and instruction labels, as necessary.

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This Class B digital apparatus complies with Canadian ICES-003.

SAVE THESE INSTRUCTIONS

⚠ WARNING: GENERAL SAFETY WARNINGS AND INSTRUCTIONS FOR ALL TOOLS

• THIS TOOL CAN BE DANGEROUS.

Follow all warnings and Safety Instructions in this manual. The

operator is responsible for following warnings and instructions in this manual and on unit. Restrict use of this mower to persons who read, understand and follow warnings and instructions in this manual and on unit.

- **Avoid dangerous environment** – don't use lawn mowers in damp or wet locations.
- **Don't Use In Rain.**
- **Keep Children Away** – All visitors should be kept a safe distance from work area.
- **Dress Properly** – Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and footwear is recommended when working outdoors.
- **Use Safety Glasses** – Always use face or dust mask if operation is dusty.
- **Use Right Appliance** – Do not use lawn mower for any job except that for which it is intended.
- **USE OF EXTENSION CORDS** Make sure the extension cord is in good condition before using. Always use the proper size extension cords with the tool – that is, proper wire size for various lengths of cord and heavy enough to carry the current the tool will draw. Use of an undersized cord will cause a drop in line voltage resulting

Volts	Minimum Gage for Cord Sets Total Length of Cord in Feet			
	0-25 (0-7.6m)	26-50 (7.6-15.2m)	51-100 (15.2-30.4m)	101-150 (30.4-45.7m)
Ampere Rating				
More Than		Not more Than		American Wire Gage
0	-6	18	16	16 14
6	-10	18	16	14 12
10	-12	16	16	14 12
12	-16	14	12	Not Recommended

in loss of power and overheating. For proper size cords see chart below.

- **CHECK FOR DAMAGED PARTS.** Before further use of the mower, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect their operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual.
- **REPAIRS AND SERVICE.** Repairs, maintenance and any adjustments not specified in this manual should be performed by BLACK+DECKER authorized service centers or other qualified service organizations, always

using identical replacement parts.

⚠ DANGER: ADDITIONAL WARNINGS FOR MOWERS

- **Avoid dangerous environment** – don't use lawn mowers in damp or wet locations.
- **Don't Force Lawn Mower** – It will do the job better and safer at the rate for which it was designed.
- **Don't Overreach** – Keep proper footing and balance at all times.
- **Stay Alert** – Watch what you are doing. Use common sense. Do not operate lawn mower when you are tired.
- **Store Idle Lawn Mower Indoors** – When not in use, lawn mower should be stored in an indoor dry and locked-up place – out of reach of children. Remove safety key.
- **Maintain Lawn Mower With Care** – Keep cutting edges sharp and clean for best and safest performance.
- **Keep guards in place and in working order.**
- **Keep blades sharp.**
- **Keep hands and feet away from cutting area.**
- **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.
- **If lawn mower strikes a foreign object, follow these steps:**
 - 1) Stop lawn mower. Release the bail handle.
 - 2) Remove battery and safety key.
 - 3) Inspect for damage.
 - 4) Repair any damage before restarting and operating the lawn mower.
- **Use identical replacement blades only.**

FUNCTIONAL DESCRIPTION

1. Switch box
2. Bail handle
3. Upper-handle
4. Lower-handle
5. Upper-handle attachments (2)
 - Levers - CM2040
 - Knobs - CM2045
6. Lower-handle attachments (2)
7. Cut height adjust lever
8. Grass collection bag
9. Rear door cover
10. Battery port
11. Battery storage compartment
12. Carrying handles
13. EdgeMax™

⚠ WARNING: Some dust created by this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- compounds in fertilizers
- compounds in insecticides, herbicides and pesticides
- arsenic and chromium from chemically treated lumber

To reduce your exposure to these chemicals, wear approved safety equipment such as dust masks that are specially designed to filter out microscopic particles.

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

V.....	volts
mW.....	milliwatts
nm.....	wavelength in nanometers
A.....	amperes
Hz.....	hertz
W.....	watts
min.....	minutes
~ or AC.....	alternating current
== or DC.....	direct current
n ₀	no load speed
Ⓛ.....	Class I Construction (grounded)
Ⓜ.....	earthing terminal
⚠.....	safety alert symbol
Ⓜ.....	Class II Construction (double insulated)
.../min or rpm.....	revolutions or reciprocation per minute
Ⓜ.....	Use proper respiratory protection
👁.....	Read instruction manual before use
👁.....	Use proper eye protection
👂.....	Use proper hearing protection



IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGERS

SAVE THESE INSTRUCTIONS: This manual contains important safety instructions for battery chargers.

- Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.

⚠WARNING: SHOCK HAZARD. Do not allow any liquid to get inside charger.

⚠CAUTION: BURN HAZARD. To reduce the risk of injury, charge only designated BLACK+DECKER batteries. Other types of batteries may burst causing personal injury and damage.

⚠CAUTION: Under certain conditions, with the charger plugged in to the power supply, the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

⚠WARNING:

- **DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual.** The charger and battery pack are specifically designed to work together.
- **These chargers are not intended for any uses other than charging designated BLACK+DECKER rechargeable batteries.** Any other uses may result in risk of fire, electric shock or electrocution.
- **⚠WARNING:** The charger supplied with this product is intended to be plugged in such that it is correctly orientated in a vertical or floor mount position.
- **Do not expose charger to rain or snow.**
- **Pull by plug rather than cord when disconnecting charger.** This will reduce risk of damage to electric plug and cord.
- **Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.**
- **Do not use an extension cord unless it is absolutely necessary.** Use of improper extension cord could result in risk of fire, electric shock, or electrocution.
- **Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat.** Place the charger in a position away from any heat source. The charger is ventilated through slots in the top and the bottom of the housing.
- **Do not mount charger on wall or**

permanently affix charger to any surface. The charger is intended to use on a flat, stable surface (i.e., table top, bench top).

- **Do not operate charger with damaged cord or plug — have them replaced immediately.**
- **Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way.** Take it to an authorized service center.
- **Do not disassemble charger; take it to an authorized service center when service or repair is required.** Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
- **Disconnect the charger from the outlet before attempting any cleaning.** This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk.
- **NEVER attempt to connect 2 chargers together.**
- **The charger is designed to operate on standard household electrical power (120 Volts). Do not attempt to use it on any other voltage.**

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY PACKS

⚠WARNING: For safe operation, read this manual and manuals originally supplied with tool before using the charger. The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.

READ ALL INSTRUCTIONS

- **Do not Incinerate the battery pack even if it is severely damaged or is completely worn out.** The battery pack can explode in a fire. Toxic fumes and materials are created when battery packs are burned.
- **Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Inserting or removing the battery from the charger may ignite the dust or fumes.
- **If battery contents come into contact with the skin, immediately wash area with mild soap and water.** If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte for Li-ion batteries is composed of a mixture of liquid organic carbonates and lithium salts.
- **Contents of opened battery cells may cause respiratory irritation.** Provide fresh air. If symptoms persist, seek medical attention.

⚠WARNING: BURN HAZARD.
BATTERY LIQUID MAY BE FLAMMABLE
IF EXPOSED TO SPARK OR FLAME.

- Charge the battery packs only in BLACK+DECKER chargers.
- **DO NOT splash or immerse in water or other liquids.** This may cause premature cell failure.
- **Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 105°F (40°C) (such as outside sheds or metal buildings in summer).**

⚠WARNING: NEVER ATTEMPT TO OPEN THE BATTERY PACK FOR ANY REASON. IF BATTERY PACK CASE IS CRACKED OR DAMAGED, DO NOT INSERT INTO CHARGER. DO NOT CRUSH, DROP OR DAMAGE BATTERY PACK. DO NOT USE A BATTERY PACK OR CHARGER THAT HAS RECEIVED A SHARP BLOW, BEEN DROPPED, RUN OVER OR DAMAGED IN ANY WAY (I.E., PIERCED WITH A NAIL, HIT WITH A HAMMER, STEPPED ON). DAMAGED BATTERY PACKS SHOULD BE RETURNED TO SERVICE CENTER FOR RECYCLING.

⚠WARNING: FIRE HAZARD. DO NOT STORE OR CARRY BATTERY SO THAT METAL OBJECTS CAN CONTACT EXPOSED BATTERY TERMINALS. FOR EXAMPLE, DO NOT PLACE BATTERY IN APRONS, POCKETS, TOOL BOXES, PRODUCT KIT BOXES, DRAWERS, ETC., WITH LOOSE NAILS, SCREWS, KEYS, ETC. TRANSPORTING BATTERIES CAN POSSIBLY CAUSE FIRES IF THE BATTERY TERMINALS INADVERTENTLY COME IN CONTACT WITH CONDUCTIVE MATERIALS SUCH AS KEYS, COINS, HAND TOOLS AND THE LIKE. THE US DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIAL REGULATIONS (HMR) ACTUALLY PROHIBIT TRANSPORTING BATTERIES IN COMMERCE OR ON AIRPLANES (I.E., PACKED IN SUITCASES AND CARRY-ON LUGGAGE) UNLESS THEY ARE PROPERLY PROTECTED FROM SHORT CIRCUITS. SO WHEN TRANSPORTING INDIVIDUAL BATTERIES, MAKE SURE THAT THE BATTERY TERMINALS ARE PROTECTED AND WELL INSULATED FROM MATERIALS THAT COULD CONTACT THEM AND CAUSE A SHORT CIRCUIT. NOTE: BATTERIES SHOULD NOT BE PUT IN CHECKED BAGGAGE.

STORAGE RECOMMENDATIONS

1. The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold.
2. Long-term storage will not harm the

battery pack or the charger as long as the battery is not depleted..

CHARGING PROCEDURE

BLACK+DECKER chargers are designed to charge BLACK+DECKER battery packs.

1. Plug the charger into an appropriate outlet before inserting the battery pack.
2. Insert the battery pack into the charger.
3. The green LED will flash indicating that the battery is being charged.
4. The completion of charge is indicated by the green LED remaining on continuously. The pack is fully charged and may be used at this time or left on the charger.

Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished.

CHARGER DIAGNOSTICS

This charger is designed to detect certain problems that can arise with the battery packs or the power source. Problems are indicated by one LED flashing in different patterns.

BAD BATTERY

The charger can detect a weak or damaged battery. The red LED flashes in the pattern indicated on the label. If you see this bad battery blink pattern, do not continue to charge the battery. Return it to a service center or a collection site for recycling.

HOT/COLD PACK DELAY

When the charger detects a battery that is excessively hot or excessively cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery has normalized. After this happens, the charger automatically switches to the Pack Charging mode. This feature ensures maximum battery life. The red LED flashes in the pattern indicated on the label when the hot / cold pack delay is detected.

IMPORTANT CHARGING NOTES

1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 60°F and 80°F (16° - 27°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will prevent serious damage to the battery pack.
2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.

3. If the battery pack does not charge properly:
 - a. Check current at receptacle by plugging in a lamp or other appliance
 - b. Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
 - c. Move charger and battery pack to a location where the surrounding air temperature is approximately 60°F - 80°F (16° - 27°C).
 - d. If charging problems persist, take the tool, battery pack and charger to your local service center.
4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
5. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.
6. Do not freeze or immerse charger in water or any other liquid.

⚠WARNING: SHOCK HAZARD. Do not allow any liquid to get inside charger. NEVER ATTEMPT TO OPEN THE BATTERY PACK FOR ANY REASON. IF THE PLASTIC HOUSING OF THE BATTERY PACK BREAKS OR CRACKS, RETURN TO A SERVICE CENTER FOR RECYCLING.

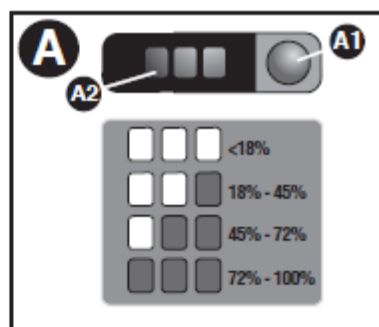
STATE OF CHARGE INDICATOR

The battery is equipped with a state of charge indicator. This can be used to display the current level of charge in the battery while in the mower and during charging. It does not indicate tool functionality and is subject to variation based on product components, temperature and end-user application.

Checking state of charge during use:

- Press the state of charge indicator button (A1).
- The three LEDs (A2) will illuminate indicating the percent of charge in the battery. See chart in figure A.
- If LED light does not illuminate, charge battery.

INSTALLING AND REMOVING THE



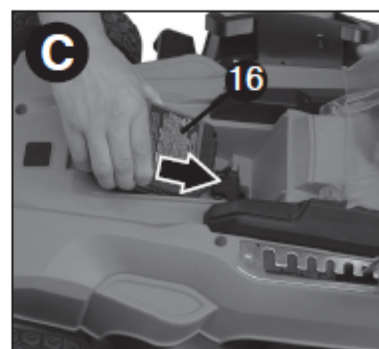
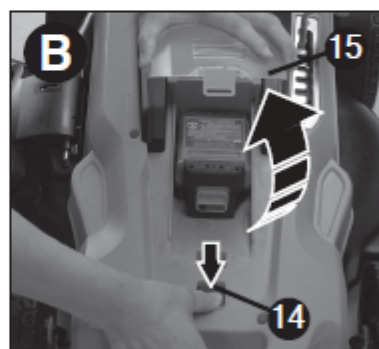
BATTERY PACK

⚠WARNING: MAKE CERTAIN THE SAFETY KEY IS REMOVED TO PREVENT ACTUATION BEFORE REMOVING OR INSTALLING BATTERY.

TO INSTALL BATTERY PACK:

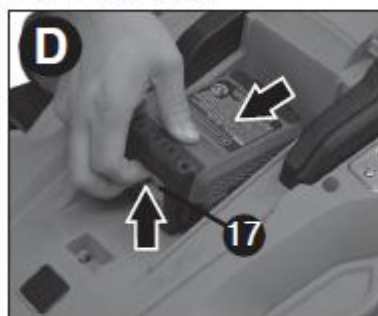
- Depress the battery port cover release button (14) and pull the battery port cover (15) up to expose the battery port (10) as shown in figure B.
- Slide the battery (16) into the battery port until it is fully seated and an audible click is heard (figure C). Make sure battery pack is fully seated and fully latched into position.
- Close the battery port cover. Ensure the cover is fully latched before starting mower.

TO REMOVE BATTERY PACK:



- Open the battery port cover (15) as described above.
- Depress the battery release button (17) on the battery pack and pull battery pack out of tool as shown in **figure D**.

BATTERY STORAGE



An extra battery can be stored using the battery storage compartment (11).

- Lift the storage compartment cover and slide the battery into the compartment as shown in **Figure E**. Battery in this compartment will not actuate the mower.

ASSEMBLY



This product can accept any of the batteries and chargers listed in the chart below.

LI-ION Battery Packs and Chargers

Description	Cat. #
Batteries: LI-ION	LBX36 LBX1540 LBX2040 LBX2540 LBXR36 LBXR2036
Chargers: LI-ION	LCS36 LCS40 LCS436

⚠WARNING: Before assembly, make sure the bail handle is released and the safety key is removed.

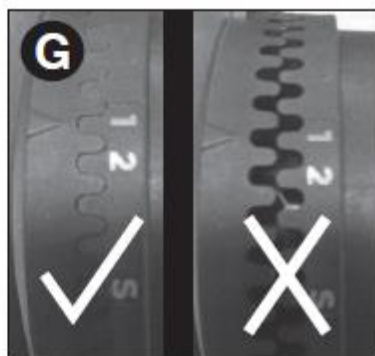
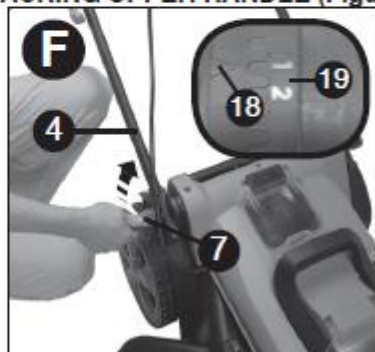
ATTACHING LOWER HANDLE

- Lift lower handle (4) into place making sure the arrow (18) on the base of the mower lines up with 1, 2, or 3 on the base of the handle (19) (inset of **Figure F**)

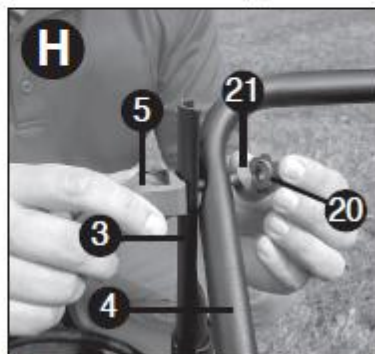
⚠CAUTION: Ensure each side of the lower handle is set on the same number. The arrow must be lined up with 1, 2, or 3 for operation.

- Close the handle height adjust levers (7) as shown in **Figure F**. As you close each, make sure the teeth are engaged as shown in **Figure G**.
- If the connection between the handle and lever is too tight or loose, open the lever and adjust the depth of the lever by turning the lever. Close it again until the teeth are fully clasped and each lever stays securely closed.

ATTACHING UPPER HANDLE (Figure H)



- Remove the upper-handle attachment levers or knobs (5), nuts (20), and washers (21) from the handle.
- Line up the holes on the bottom of the upper handle (3) with the holes on the top of the lower handle (4).



NOTE: Make sure the cord is located on

the front of both handles. If it is not it may result in the cord tangling and the inability to easily store the mower (**Figure I**).

- From the outside of the upper handle (3), slide the lever/knob bolt through the holes.
- Slide the washer over the bolt and loosely assemble the entire assembly with the nut.
- Rotate the upper handle into its operating position.
- Close the lever, or tighten the knob. If the lever is too tight or too loose, open the lever and the nut to adjust the clamping. Check the levers by closing them. They should be tight enough so the handles are held firmly, but loose enough so the levers can be fully closed. Adjust by opening the lever and turning the nut until the handles are secured.

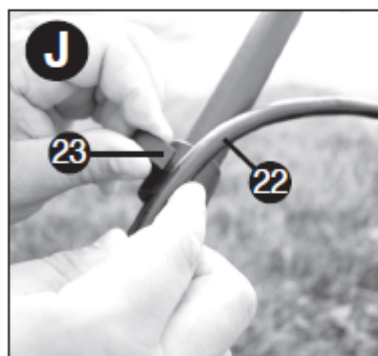


SECURING THE MOTOR CABLE (FIGURE J)

⚠ CAUTION: ATTACH CABLE SO THAT IT DOES NOT BECOME STRETCHED OR PINCHED IN THE JOINTS OF THE HANDLES DURING USE OR FOLDING. THIS CAN CAUSE DAMAGE TO THE CORD.

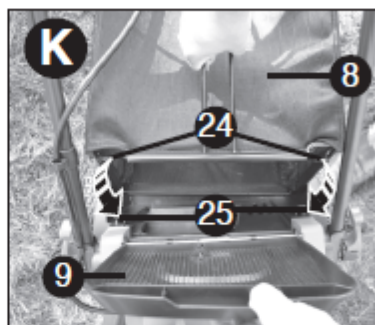
The motor cable (22) has to be fixed to the handles using the cable restraints (23) that are already attached to the handle.

- To clip the cable to the handle:
- Place the handles in operating position, see "Attaching Lower Handle" section.
 - Run the cable up the front of the lower and upper handles.
 - Pull back the cable restraint.
 - Slide the motor cable under the clip and ensure it is fully held in place by the restraint.



BAGGING

- Ensure the side discharge attachment (27) (**Figure M**) and the mulching insert (26) (**Figure L**) are removed from the mower before bagging.
- Lift the rear door cover (9) and place the grass collection bag (8) onto the mower so the bag hooks (24) rest on the lugs (25) as shown in **Figure K**. Then lower the rear door cover.



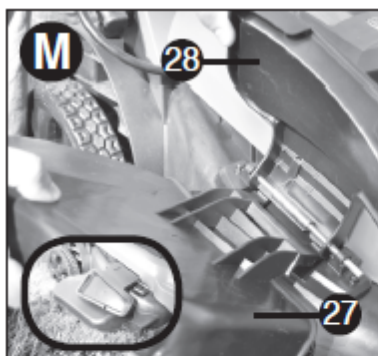
MULCHING

- Ensure the side discharge attachment (27) and the collection bag (8) are not attached.
- Lift the rear door cover (9) and slide the mulching insert (26) fully into the mower as shown in **Figure L**.
- Ensure the rear door cover fully closes before turning mower on.



SIDE DISCHARGE

- Ensure the collection bag (8) is removed.
- Lift the rear flap (9) and slide the mulching insert (26) fully into the mower as shown in **Figure L**.
- Lift the side flap (28) and hook side discharge attachment (27) onto the mower as shown in **Figure M**.
- Release the side flap and ensure the attachment holds in place before turning mower on as shown in the insert of **Figure M**.



OPERATION

READ THIS INSTRUCTION MANUAL BEFORE OPERATING YOUR MOWER. See “Functional Description” on page 6 to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

⚠ WARNING: Sharp moving blade.

Do not operate the mower in side discharge or mulching mode if the rear door is not closed under spring tension as serious injury could result. Take your mower to the nearest service center for repair.

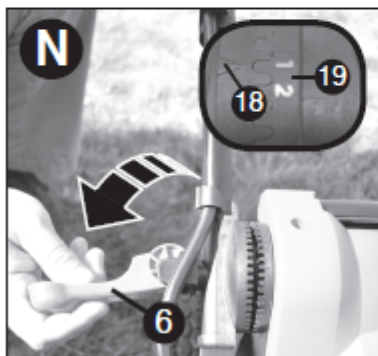
⚠ DANGER: Sharp moving blade.

Never operate the mower in bagging mode unless the hanger hooks on the grass catcher are seated properly on the mower and the rear discharge door rests firmly against the top of the grass catcher as serious injury could result.

⚠ WARNING: Let the mower work at its own pace. Do not overload.

ADJUSTING HANDLE HEIGHT (FIGURE N)

- Open both lower-handle attachment levers (6).
- Adjust the handle so the arrow (18) on the base of the mower lines up with 1, 2, or 3 on the base of the handle (19). Ensure the handle is set to the same number on both sides of the mower.
- Close both levers and ensure the handle is firmly latched.



ADJUSTING MOWER HEIGHT (FIGURE O)

The height of cut is adjusted by the central cut height adjust lever, there are 7 positions to choose from.

NOTE: If you are not sure which height to cut, begin mowing with the height adjustment lever (7) in position 7 and adjust the height down as needed, as shown in figure O.

To set the height of cut

- Pull the mower height adjustment lever out of the locking notch.
- Move the lever towards the rear of the appliance to lower the height of cut.
- Move the lever towards the front of the appliance to raise the height of cut.
- Push the height adjustment lever into one of the 7 locking notches.



SAFETY KEY

⚠ DANGER : SHARP MOVING BLADE.

In order to prevent accidental start-up or unauthorized use of your Cordless Mower, a removable safety key (29) has been incorporated into the design of your mower. The mower will be completely disabled when the safety key has been removed from the mower.

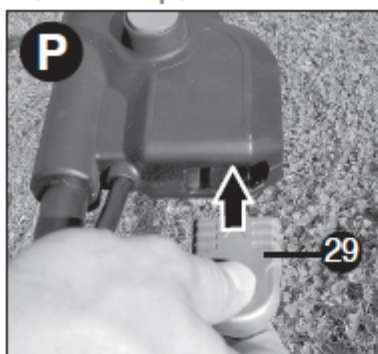
NOTE: THE SAFETY KEY HAS A HOLE IN THE CENTER TO ALLOW FOR STORAGE ON A NAIL, OUT OF THE REACH OF CHILDREN. DO NOT TETHER SAFETY KEY TO MOWER.

⚠ DANGER: ROTATING BLADES CAN CAUSE SERIOUS INJURY. TO PREVENT SERIOUS INJURY, REMOVE SAFETY KEY WHEN UNATTENDED, OR WHEN CHARGING, CLEANING, SERVICING, TRANSPORTING, LIFTING, OR STORING MOWER.

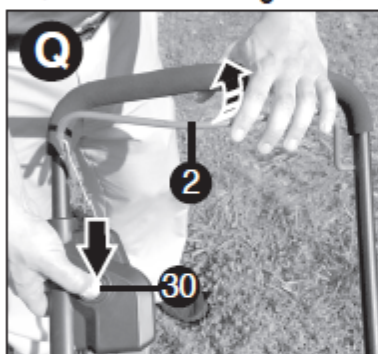
STARTING MOWER
⚠ DANGER: SHARP MOVING BLADE. NEVER ATTEMPT TO OVERRIDE THE OPERATION OF THIS SWITCH BOX AND SAFETY KEY SYSTEM AS SERIOUS INJURY COULD RESULT.

- Insert safety key (29) into the switch housing until it is fully seated inside

housing as shown in **Figure P**. The mower is now operational.



- Your mower is equipped with a special on-off switch box. To operate the mower, push the button (30) on the switch box (1), then pull the bail handle (2) to the handlebar as shown in **Figure Q**.



- To turn the mower off, just release the bail handle.

⚠ WARNING: Never attempt to lock a switch or bail handle in the on position.

NOTE: Once the bail handle has returned to the original position it will activate the "Automatic Braking Mechanism". The motor is electrically braked and the mower blade will stop rotating in 3 seconds or less.

MOWER OVERLOAD

To prevent damage due to overload conditions, do not try to remove too much grass at one time. Slow down your cutting pace, or raise the cut height.

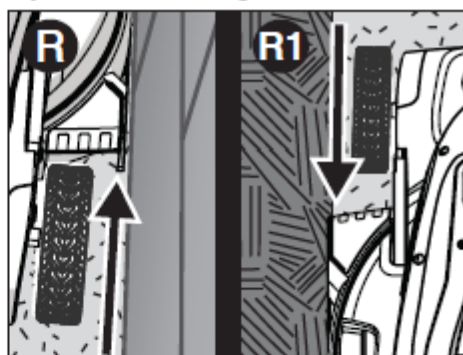
EDGEMAX™

EdgeMax™ (13) allows you to cut grass right up to the edge of a wall or fence (**fig. R**).

EdgeMax™ allows you to accurately cut grass right up to the edge of your lawn (**fig. R1**).

- With the lawnmower parallel to the edge of your lawn, push the lawnmower along the edge of the lawn. Ensure that the EdgeMax™ is slightly over the edge of your lawn (**fig. R1**).

NOTE: When the side discharge attachment is attached EdgeMax™ can only be used on the right side of the mower.



STORAGE

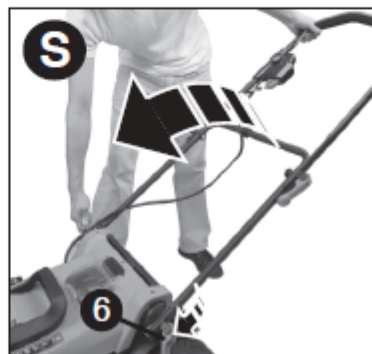
⚠ WARNING: Rotating blade can cause serious injury. Release BAIL HANDLE (2) to turn mower off, remove safety key, and remove battery before lifting, transporting, or storing the mower. Store in a dry place.

⚠ CAUTION: PINCH POINT. TO AVOID BEING PINCHED, KEEP FINGERS AWAY FROM AREA BETWEEN HANDLES WHEN FOLDING DOWN HANDLES.

⚠ CAUTION: MAKE SURE CORD DOES NOT BECOME STRETCHED OR PINCHED IN THE JOINTS OF THE HANDLES DURING FOLDING. THIS CAN CAUSE DAMAGE TO THE CORD.

The handle of the mower can be easily folded down for quick and convenient storage.

- Holding onto the handle, open, but do not remove, the lower-handle attachment levers (6) and fold the handle to the front of the mower as shown in **Figure S**.



- Open, but do not remove, the upper-handle attachment levers (5), or loosen the knobs, and fold the upper handle (3) back over the lower handle (4) as shown in **Figure T**.



- The mower should be compacted down as shown in **Figure U**.



CARRYING THE MOWER

⚠ DANGER: ROTATING BLADES CAN CAUSE SERIOUS INJURY. TO PREVENT SERIOUS INJURY, REMOVE SAFETY KEY WHEN UNATTENDED, OR WHEN CHARGING, CLEANING, SERVICING, TRANSPORTING, LIFTING, OR STORING MOWER.

- The mower can be carried using the convenient carry handles (12) as shown in **Figure V**. DO NOT attempt to lift the mower by grasping the upper handle (3) or lower handle (4).



MOWING TIPS

⚠ WARNING: ALWAYS INSPECT AREA WHERE MOWER IS TO BE USED AND REMOVE ALL STONES, STICKS, WIRE, BONES, AND OTHER DEBRIS WHICH MIGHT BE THROWN BY THE ROTATING BLADE.

1. **⚠ WARNING:** Mow across the face

of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always maintain good footing.

2. Release bail handle to turn mower "OFF" when crossing any gravel area (stones can be thrown by the blade).
3. Set mower at highest cutting height when mowing in rough ground or in tall weeds. Removing too much grass at one time can cause the motor to be overloaded and to stop. Refer to troubleshooting guide.
4. If a grass collection bag (8) is used during the fast growing season, the grass may tend to clog up at the discharge opening. Release bail handle to turn mower off and remove the safety key. Remove the catcher and shake the grass down to the back end of the bag. Also clean out any grass or debris which may be packed around the discharge opening. Replace the grass catcher.
5. If mower should start to vibrate abnormally, release bail handle to turn mower off and remove safety key. Check immediately for cause. Vibration is a warning of trouble. Do not operate mower until a service check has been made. Refer to troubleshooting guide in manual.
6. **ALWAYS RELEASE BAIL HANDLE TO TURN MOWER OFF AND REMOVE SAFETY KEY WHEN LEAVING IT UNATTENDED EVEN FOR A SHORT PERIOD OF TIME.**

THE FOLLOWING SUGGESTIONS WILL HELP YOU TO OBTAIN OPTIMUM RUN TIME FROM YOUR CORDLESS MOWER:

1. Slow down in areas where the grass is especially long or thick.
2. Avoid mowing when the grass is wet from rain or dew-soaked.
3. Cut your lawn frequently, especially during high growth periods.

NOTE: IT IS RECOMMENDED THAT YOUR MOWER BE RECHARGED AFTER USE TO PROLONG THE BATTERY LIFE. FREQUENT CHARGING WILL NOT HARM YOUR BATTERY, AND WILL ENSURE THAT THE BATTERY IS FULLY CHARGED AND READY FOR ITS NEXT USE. STORING BATTERY NOT FULLY CHARGED WILL SHORTEN BATTERY LIFE.

REMOVING AND INSTALLING BLADE

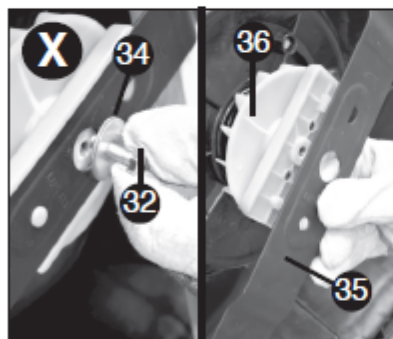
⚠ DANGER: RISK OF INJURY. WHEN REASSEMBLING THE BLADE SYSTEM, ENSURE EACH PART IS

REINSTALLED CORRECTLY, AS DESCRIBED BELOW. IMPROPER ASSEMBLY OF THE BLADE OR OTHER PARTS OF THE BLADE SYSTEM MAY CAUSE SERIOUS INJURY.

1. **⚠ WARNING:** RELEASE BAIL HANDLE TO TURN MOWER OFF, WAIT FOR THE BLADE TO STOP, AND REMOVE SAFETY KEY AND BATTERY PACK.
2. Cut a piece of 2x4 wood (31) (about 2 feet long) (610 mm) to keep blade from turning while removing bolt (32).
3. Wear gloves and proper eye protection. Turn the mower on its side. Be careful of sharp edges of blade. Position wood and unscrew bolt with 1/2" wrench (33) as shown in **Figure W**.



4. Remove bolt and washer (34). Pull off blade (35) as shown in **Figure X**. The fan (36) should not be removed. Examine all pieces for damage and replace if necessary.



5. The blade can only be attached to the fan in one direction. To reassemble, line up the D-shaped hole of the blade with the D-shaped post of the fan, ensuring the writing on the blade faces out away from the mower.
6. To tighten firmly, position the piece of wood as shown in **Figure Y** to keep the blade from turning. Slide the bolt through the washer and screw bolt into place. Tighten with the wrench.



BLADE SHARPENING

KEEP BLADE SHARP FOR BEST MOWER PERFORMANCE. A DULL BLADE DOES NOT CUT GRASS CLEANLY. USE PROPER EYE PROTECTION WHILE REMOVING, SHARPENING, AND INSTALLING BLADE. ENSURE THAT SAFETY KEY AND BATTERY PACK IS REMOVED.

Sharpening the blade twice during a mowing season is usually sufficient under normal circumstances. Sand causes the blade to dull quickly. If your lawn has sandy soil, more frequent sharpening may be required.

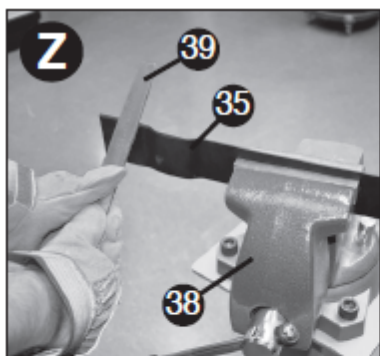
REPLACE BENT OR DAMAGED BLADE IMMEDIATELY.

WHEN SHARPENING THE BLADE:

1. Make sure blade remains balanced.
2. Sharpen blade at the original cutting angle.
3. Sharpen cutting edges on both ends of blade, removing equal amounts of material from both ends.

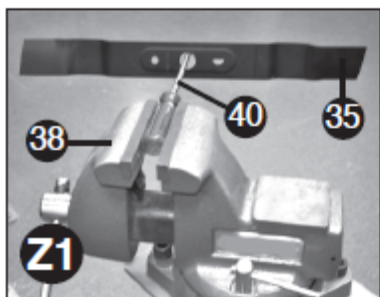
TO SHARPEN BLADE IN A VISE: (Figure Z)

1. Be sure the bail handle is released, the blade has stopped and safety key and battery pack removed before removing the blade.
2. Remove blade from mower. See instructions for removing and installing blade.
3. Secure blade (35) in a vise (38).
4. Wear proper eye protection and gloves and be careful not to cut yourself.
5. Carefully file the cutting edges of the blade with a fine tooth file (39) or sharpening stone, maintaining the angle of the original cutting edge.
6. Check balance of blade. See instructions for blade balancing.
7. Replace blade on mower and tighten securely.



BLADE BALANCING (Figure Z1)

Check balance of the blade (35) by placing center hole in the blade over a nail or round shank screwdriver (40), clamped horizontally in a vise (38). If either end of the blade rotates downward, file along the sharp edge of that dropping end. Blade is properly balanced when neither end drops.



LUBRICATION

No lubrication is necessary. Do not oil the wheels. They have plastic bearing surfaces which require no lubrication.

CLEANING

Release bail handle (2) to turn mower off, let the blade come to a stop and then remove safety key. Use only mild soap and a damp cloth to clean the mower. Clean out any clippings which may have accumulated on the underside of the deck. After several uses, check all exposed fasteners for tightness.

PREVENTING CORROSION

Fertilizers and other garden chemicals contain agents which greatly accelerate the corrosion of metals. If you mow in areas where fertilizers or chemicals have been used, the mower should be cleaned immediately afterward as follows: Release bail handle (2) to turn mower off and remove safety key and battery. Wipe all exposed parts with a damp cloth.

⚠ CAUTION: DO NOT POUR OR SPRAY WATER ON THE MOWER IN AN ATTEMPT TO CLEAN IT. Do not store the tool on or adjacent to fertilizers or chemicals. Such storage can cause rapid corrosion.

MEETS CPSC SAFETY REQUIREMENTS

BLACK+DECKER Mowers conform to the safety standards of the American National Standards Institute, and the U.S. Consumer Product Safety Commission. The Blade turns when the motor is running.

MAINTENANCE

IMPORTANT: To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (including brush inspection and replacement) should be performed by BLACK+DECKER Service Centers or other qualified service organizations, always using BLACK+DECKER replacement parts. When servicing use ONLY IDENTICAL REPLACEMENT PARTS.

ACCESSORIES

RECOMMENDED ACCESSORIES FOR USE WITH YOUR MOWER ARE AVAILABLE FROM YOUR LOCAL DEALER OR AUTHORIZED SERVICE CENTER. IF YOU NEED ASSISTANCE REGARDING ACCESSORIES, PLEASE CALL: 1-800-544-6986

⚠ WARNING: The use of any accessory not recommended for use with this tool could be hazardous.

THE RBRC™ SEAL

The RBRC™ (Rechargeable Battery Recycling Corporation) Seal on the LI-ION battery (or battery pack) indicates that the costs to recycle the battery (or battery pack) at the end of its useful life have already been paid by BLACK+DECKER. RBRC™ in cooperation with BLACK+DECKER and other battery users, has established programs in the United States to facilitate the collection of spent LI-ION batteries. Help protect our environment and conserve natural resources by returning the spent LI-ION battery to an authorized BLACK+DECKER service center or to your local retailer for recycling. You may also contact your local recycling center for information on where to drop off the spent battery. RBRC™ is a registered trademark of the Rechargeable Battery Recycling Corporation.



PROBLEM		TROUBLESHOOTING	SOLUTION
1. Mower doesn't run when bail handle is activated.			A. Check to make sure safety key has been installed and is fully seated and that button on switch housing is being completely depressed before pulling bail handle. B. Release bail handle to turn mower off. Remove safety key and battery pack, turn mower over and check that blade is free to turn. C. Check that the battery cavity is free of debris and is connected properly. D. Has battery been fully charged? Plug in charger and wait for green light to come on.
2. Motor stops while mowing.			A. Release bail handle to turn mower off. Remove safety key and battery pack. Turn mower over and check that blade is free to turn. B. Raise cutting height of wheels to highest position and start mower. C. Check that the battery cavity is free of debris and is connected properly. D. Has battery been fully charged? Press state of charge button. E. Avoid overloading the mower. Slow down the cutting pace, or raise the cut height.
3. Mower runs but cutting performance is unsatisfactory, or does not cut entire lawn.			A. Has battery been fully charged? Press state of charge button. B. Release bail handle to turn mower off. Remove safety key and battery pack. Turn mower over and check: - Blade for sharpness - Keep blade sharp. - Deck and discharge chute for clogging. C. Wheel height adjustment may be set too low for grass condition. Raise cutting height.
4. Mower is too hard to push.			A. Release bail handle to turn mower off. Remove safety key and battery pack. Raise cutting height to reduce deck drag on grass. Check each wheel for free rotation.
5. Mower is abnormally noisy and vibrates.			A. Release bail handle to turn mower off. Remove safety key and battery pack. Turn mower on side and check blade to ensure it has not been bent or damaged. If blade is damaged, replace with a BLACK+DECKER replacement blade. If the underside of the deck is damaged, return mower to a BLACK+DECKER Authorized service center. B. If there is no visible damage to the blade and the mower still vibrates: Release bail handle to turn mower off. Remove safety key and battery pack. Disassemble entire blade assembly as described in the "Removing and Installing Blade" section. Remove any debris and clean each piece. Replace each piece as described in the "Removing and Installing Blade" section. If mower still vibrates, return the mower to an authorized BLACK+DECKER authorized service center.
6. Battery charger LEDs not on.			A. Check plug connection. B. Replace charger.
7. Mower not picking up clippings with bag.			A. Chute clogged. Release bail handle to turn mower off. Remove safety key and battery pack. Clear chute of grass clippings. B. Raise cutting height of wheels to shorten length of the cut. C. Bag full. Empty bag more often.
For assistance, visit our website www.blackanddecker.com or call the BLACK+DECKER help line at 1-800-544-6986.			

SERVICE INFORMATION

All BLACK+DECKER Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the BLACK+DECKER location nearest you. To find your local service location, call: 1-800-544-6986 or visit www.blackanddecker.com

Limited Two-Year Home Use Warranty

Black & Decker (U.S.) Inc. warrants this product for two years against any defects in material or workmanship. The defective product will be replaced or repaired at no charge in either of two ways.

The first, which will result in exchanges only, is to return the product to the retailer from whom it was purchased (provided that the store is a participating retailer). Returns should be made within the time period of the retailer's policy for exchanges (usually 30 to 90 days after the sale). Proof of purchase may be required. Please check with the retailer for their specific return policy regarding returns that are beyond the time set for exchanges.

The second option is to take or send the product (prepaid) to a BLACK+DECKER owned or authorized Service Center for repair or replacement at our option. Proof of purchase may be required.

This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state or province to province. Should you have any questions, contact the manager of your nearest BLACK+DECKER Service Center. This product is not intended for commercial use.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call 1-800-544-6986 for a free replacement.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, check country specific warranty information contained in the packaging, call the local company or see the website for warranty information.

Imported by
Black & Decker (U.S.) Inc.,
701 E. Joppa Rd.
Towson, MD 21286 U.S.A.

