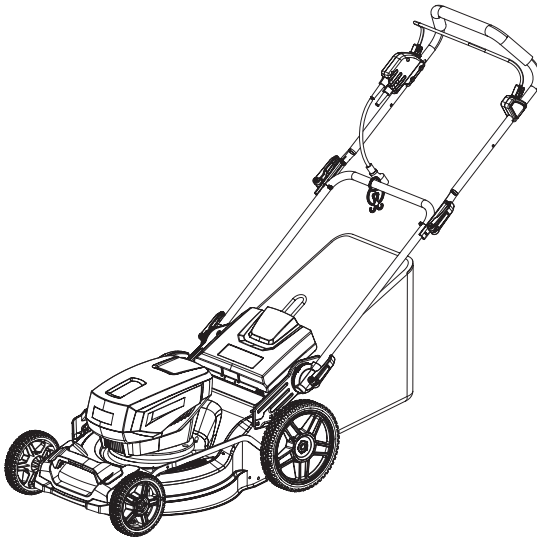


**BENCHMARK**

®

## 15 AMP 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**



## **PRODUCT SPECIFICATIONS**

Rated voltage:	120 V~ 60 Hz
Rated power:	15 A
No load speed:	3200 RPM
Deck diameter:	19" (48 cm)
Cutting path:	18" (46 cm)
Front Wheel Diameter:	7" (18 cm)
Rear Wheel Diameter:	10" (25 cm)
Cutting Height:	1 – 3" (2.5– 7.5 cm)
Cutting Height Positions:	7
Grass Collection Capacity:	1.4 bushels (50L)
Mower Weight:	46 lb (20.9 kg)

For problem or questions, DO NOT RETURN TO STORE contact one of our customer service agents who would be happy to assist you.

For customer service please call: 1-833-818-4111.

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## **PRODUCT SAFETY**

### **READ ALL 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:

**WARNING:** Risk of injury could occur if the lawn mower is operated without the catcher assembly attached.

**WARNING:** The use of any other accessory or attachment might increase the risk of injury.

### **A) FOR ALL DOUBLE-INSULATED LAWN MOWERS**

- 1) **Replacement Parts** - When servicing use only identical replacement parts.
- 2) **Polarized Connections** - To reduce the risk of electric shock, this mower has a polarized plug (one blade is wider than the other) and will require the use of a polarized extension cord. The plug will fit into a polarized extension cord only one way. If the plug does not fit fully into the extension cord, reverse the plug. If the plug still does not fit, obtain a correct polarized extension cord. A polarized extension cord will require the use of a polarized wall outlet. This plug will fit into the polarized wall outlet only one way. If the plug does not fit fully into the wall outlet, reverse the plug. If the plug still does not fit, contact a qualified electrician to install the proper wall outlet. Do not change the mower plug, extension cord receptacle, or extension cord plug in any way.

### **B) FOR ALL LAWN MOWERS**

- 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 jewellery. They can be 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 right lawn mower - Do not use lawn mower for any job except that for which it is intended.
- 7) Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the lawn mower. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
- 8) Warning - To prevent electric shock use only with an extension cord suitable for outdoor use, such as SW, SOW, STW, STOW, SJW, SJOW, SJTW, or SJTOW.



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



**WARNING: Read all instructions.**



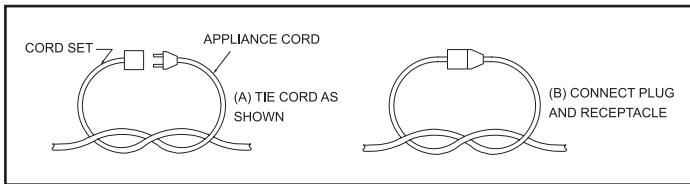
9) **Extension Cord** - Make sure your extension cord set is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. For lengths less than 25' or 50' (7.2 m or 15.2 m) feet, No. 16/16 AWG extension cord should be used. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

(**NOTE:** Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.) To reduce the likelihood of disconnection of lawn mower cord from the cord set during operating:

- i) Make a knot as shown in Figure 1, or
- ii) Use one of the plug-receptacle retaining straps or connectors described in this manual.

Table 1 Minimum gauge for extension cords				
Volts	Total length of cord			
120 V	25' 7.2 m	50' 15.2 m	100' 30.4 m	150' 45.7 m
Ampere rating more than not more than	AWG			
0-6	18	16	16	14
6-10	18	16	14	12
10-12	16	16	14	12
12-16	14	12	Not recommended	

**Figure 1 - Method of securing cord set**



10) **Don't abuse cord** - Never pull lawn mower by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

11) **Don't force lawn mower** - It will do the job properly and safer at the rate for which it was designed.

12) **Don't overreach** - Keep proper footing and balance at all times.

13) **Stay alert** - Watch what you are doing. Use common sense. Do not operate lawn mower when you are tired.

14) **Disconnect lawn mower** - Disconnect the lawn mower from the power supply when not in use, before servicing, when changing accessories such as blades, and the like.

15) **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.

16) **Maintain lawn mower with care** - Keep cutting edges sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories. Inspect



**WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.**

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.

17) Keep guards in place and in working order.

18) Keep blades sharp.

19) Keep hands and feet away from cutting area.

20) 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.

21) If lawn mower strikes a foreign object, follow these steps:

i) Stop lawn mower. Release the switch.

ii) Unplug power cord.

iii) Inspect for damage.

iv) Repair any damage before restarting and operating the lawn mower.

22) Use identical replacement blades only.

## **INSTRUCTIONS FOR WALK-BEHIND MOWERS**

### **IMPORTANT - SAFE PRACTICES FOR WALK-BEHIND MOWERS**

#### **I. GENERAL OPERATION**

1. Read, understand, and follow all instructions on the mower and in the manual(s) 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 of objects such as rocks, wire, toys, etc., which could be thrown by the blade. Stay behind the handle when the motor is running.

5. Be sure the area is clear of bystanders before operating. Stop mower if anyone enters the area.

6. Do not operate mower barefooted or while wearing sandals. Always wear proper 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. 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.

10. Never leave a running mower unattended.

11. Stop the motor and wait until the blade comes to a complete stop before cleaning the mower, removing grass catcher, or unclogging the discharge guard.

12. Operate mower only in daylight or good artificial light.

13. Do not operate mower while under the influence of alcohol or drugs.

14. Never operate mower in wet grass. 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, stop the motor and check for the cause immediately. Vibration is generally a warning of trouble.
17. Always wear eye protection when operating mower.
18. See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.

## **II. 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.

## **III. 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.

## **IV. SERVICE**

### **GENERAL SERVICE**

1. Keep all nuts and bolts tight to be sure the mower is in safe working condition.
2. Never tamper with safety devices. Check their proper operation regularly.
3. Keep mower free of grass, leaves, or other debris build-up.
4. If you strike a foreign object, stop and inspect the mower. Repair, if necessary, before starting.
5. Never make any adjustments or repairs with the motor running.
6. Always unplug electric mowers before adjusting, cleaning, or repairing.
7. Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.

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

## **Safe operation practices for walk-behind**

### **1. Safety Instructions**

#### **1.1 Training**

- A) Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the mower.
- B) Never allow children to operate a power mower.
- C) Keep the area of operation clear of all persons, particularly small children, and pets.
- D) Do not use a mower for any job except that for which it is intended.

#### **1.2 Preparation**

- A) Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
- B) Do not operate the mower when barefoot or wearing sandals. Always wear proper footwear.
- C) Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the motor.
- D) Never attempt to make a wheel height adjustment while the motor is running.
- E) Mow only in daylight or in good artificial light.
- F) Never operate the mower on wet grass. Always be sure of your footing. Keep a firm hold on the handle and walk, never run.

#### **1.3 Operation**

- A) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- B) Stop the blade(s) when crossing gravel drives, walks, or roads.
- C) After striking a foreign object, stop the motor, unplug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
- D) If the mower should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
- E) Stop the motor and unplug whenever you leave the mower, before cleaning the mower housing, and before making any repairs or inspections.
- F) Shut the motor off and wait until the blade comes to a complete stop before removing the grass catcher or before unclogging the chute.
- G) Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
- H) Never operate the mower without proper guards, plates, or other safety protective devices in place.
- I) Do not wash with a hose, avoid getting water in motor and electrical connections.

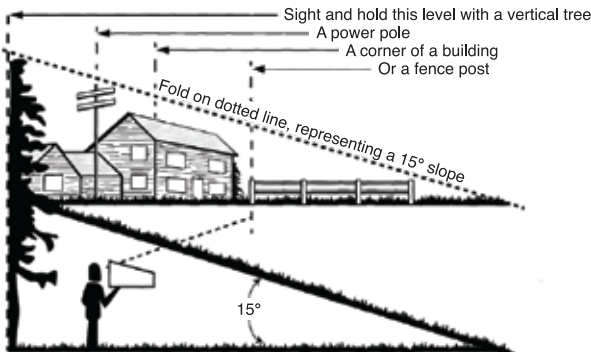
### 1.4 Maintenance

- A) Check the blade and the motor mounting bolts at frequent intervals for proper tightness.
- B) Keep all nuts, bolts, and screws tight to ensure the mower is in safe working condition.
- C) Check bag frequently for deterioration and wear, and replace worn bags. Check that replacement bags comply with the original manufacturer's recommendations or specifications.
- D) Replace the blade if it is bent or cracked. An unbalanced blade causes vibration that could damage the motor drive unit or cause personal injury.
- E) Sharpen a dull blade equally at each end to maintain the balance.
- F) Clean the blade thoroughly and check its balance by supporting it horizontally on a thin nail through its centre hole. The nail should also be in a horizontal position. If either end of the blade rotates downward, remove some metal from the heavy or lower end until the blade is balanced. It is balanced when neither end drops.















### Slope gauge



- Mow across the face of a slope and never up and down. Exercise extreme caution when changing direction on a slope.
- Watch for holes, ruts, rocks, hidden objects, or bumps that may cause a slip or a trip. Tall grass can hide obstacles.
- Always be sure of your footing. If you feel like you are losing your balance, release the bail switch immediately. The blade will stop rotating within 3 seconds.
- Do not mow near drop-offs, ditches, or embankments, because you could lose your footing or balance.
- Do not mow a slope that has an angle of greater than 15°, as determined using the slope gauge.
- Do not mow wet or damp grass. Unstable footing can cause slipping.

**WARNING:** Do not mow a slope that has an angle greater than 15° (a rise of approximately 2 1/2' [0.75 m] every 10' [3 m]). Mow across the face of a slope, and never up and down.

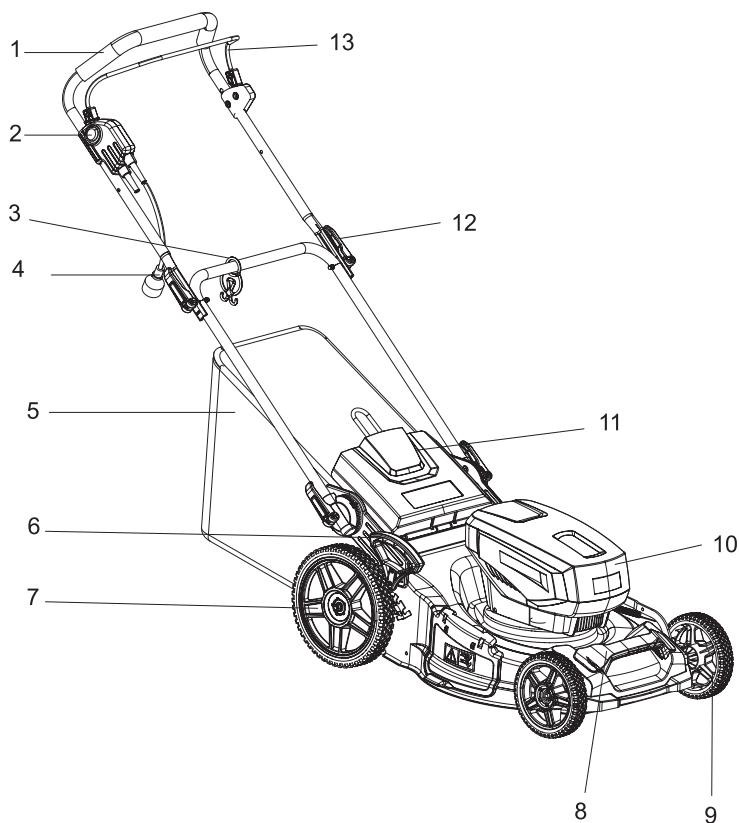


## SAFETY SYMBOLS

SYMBOL	NAME	DESIGNATION/EXPLANATION
<b>V</b>	Volts	Voltage
<b>A</b>	Amperes	Current
<b>Hz</b>	Hertz	Frequency (cycles per second)
<b>W</b>	Watts	Power
min	Minutes	Time
	Alternating current	Type of current
	Direct current	Type of current
	Class II construction	Double-insulated construction
/min	Per minute	Revolutions, strokes, surface speed, orbits etc., per minute.
	Read the operator's manual	To reduce the risk of injury, user must read instruction manual.
	Ear protection	Wear ear protection.
	Operation condition	Do not expose to rain.
	WARNING	CPSC Danger label.
	WARNING	Severing of toes or fingers-rotary mower blade.
	WARNING	Thrown objects from mower deck.
	WARNING	Keep bystanders/children away.
	WARNING	Safety alert.
	WARNING	Slippery on slopes.
	WARNING	Read the operator's manual.
	WARNING	Blade continues to rotate after the mower is switched off. Wait until all mower components have completely stopped before touching them.

	WARNING	Wear protective gloves.
	WARNING	Before performing any work on the mower, pull the power plug from the outlet.

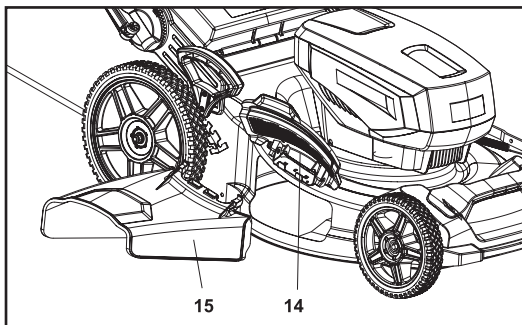
## KNOW YOUR 15 AMP LAWN MOWER



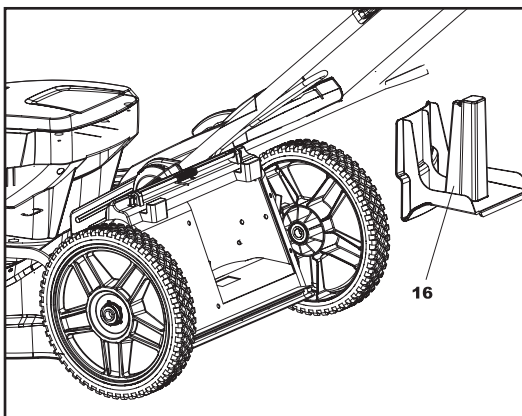
- 1. Handlebar
- 2. Safety button
- 3. Extension cord retainer
- 4. Power cord
- 5. Grass catcher
- 6. Height adjusting handle
- 7. Rear wheel

- 8. Front bumper handle
- 9. Front wheel
- 10. Motor cover
- 11. Rear flap
- 12. Handle knob
- 13. Operating bail





14. Mulch Door      15. Side-discharge deflector



16. Mulching plug

We recommend that you purchase your accessories listed in the above list from the same store that sold you the lawn mower. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

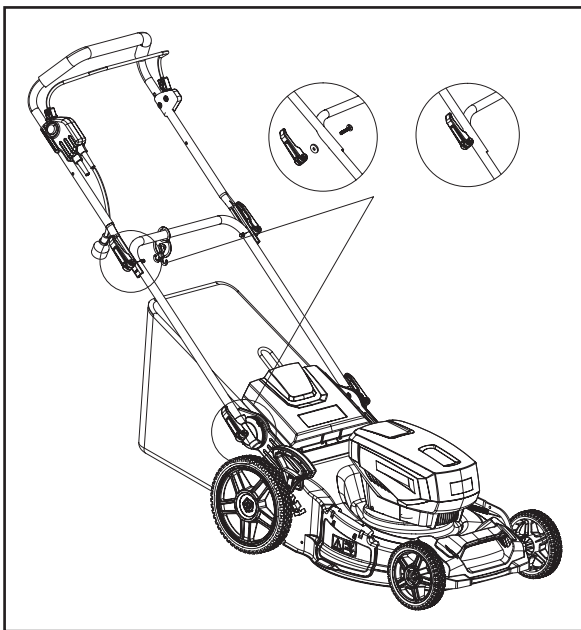
## ASSEMBLY/ PRE-OPERATION



**CAUTION:** Read complete **INSTRUCTION MANUAL** before operating this machine.

Your new lawn mower has been assembled at the factory with the exception of those parts left disassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

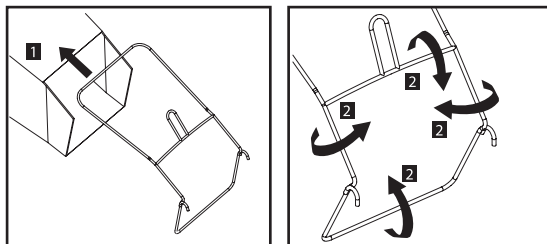
### HOW TO SET UP YOUR LAWN MOWER



1. Pull up and back on the lower handle to raise the handle into operating position, then attach the upper handle to lower handle, tighten the upper handle with the cam locks on both sides.
2. Adjust the handle position to your desired angle and height, make sure you feel comfortable with the operating position be set. Make certain the handles snap into place securely, then tighten the lower handle with the handle knobs on both sides.

**IMPORTANT:** Unfold handle carefully to avoid pinching or damaging the power cord.

## TO ASSEMBLE THE GRASS CATCHER



1. Put the grass catcher frame into the grass bag with the rigid part of the bag on the bottom. Make sure the frame handle is outside of the bag top.
2. Slip the vinyl bindings over the frame.

## TO CONVERT MOWER

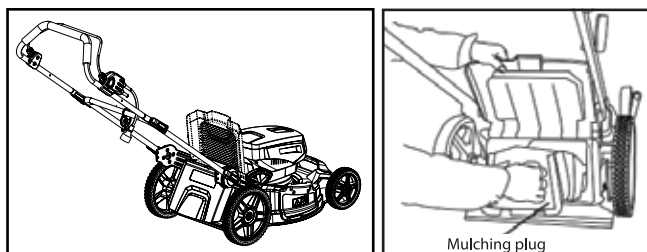
Your lawn mower may have been shipped ready to be used as a mulcher. Convert to bagging or discharge modes by changing the installed accessories.

**NOTE:** This lawn mower has three functions. Change functions by changing the installed accessories as shown in the following chart.

To convert mower	mulching plug	grass catcher	side discharge deflector
For rear bagging	x	✓	x
For mulching	✓	x	x
For side discharging	✓	x	✓

"✓" Installed "x" Removed

## REAR BAGGING



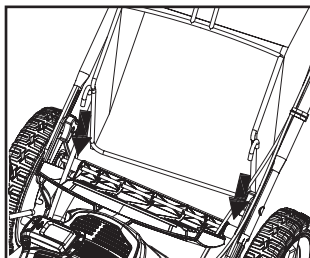
1. Lift rear flap of the lawn mower.
2. Remove the mulching plug when you set your lawn mower for rear bagging.

3. Place the grass catcher frame hooks onto the grass bag brackets.

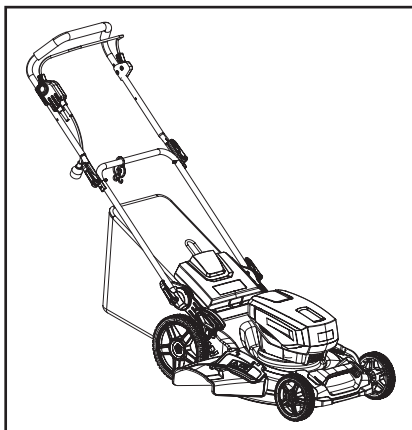
**NOTE:** For clarity, rear flap is not shown.

4. Ensure that rear flap covers any gap between mower deck and bagging unit.

5. To convert to mulching or discharging operation, remove grass catcher, assemble the mulching plug and close the rear flap.



## **SIDE DISCHARGING**



**IMPORTANT:** THE REAR FLAP MUST BE CLOSED.

1. Open the mulch door.

2. Install the discharge deflector under the door as shown. The mower is now ready for discharging operation.

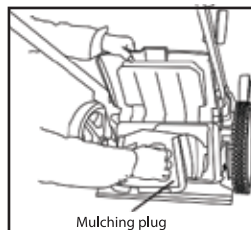
**NOTE:** To convert to mulching or bagging operation, side mulch door must be closed.

## **MULCH/DISCHARGE GUARD**

1. Open the mulch door.

2. Remove the discharge deflector.

3. Assemble the mulching plug as shown. The mower is now ready for mulching operation.



## **SIMPLE STEPS TO REMEMBER WHEN CONVERTING YOUR LAWN MOWER**

### **FOR MULCHING**

- The rear flap is closed.
- The mulch door is closed, and the mulching plug must be assembled.

### **FOR REAR BAGGING**

- Remove the mulching plug.
- The grass catcher is installed.
- The mulch door is closed.

### **FOR SIDE DISCHARGING**

- The rear flap is closed.
- Assemble the mulching plug.
- The discharge deflector is installed.



**CAUTION:** DO NOT run your lawn mower without the rear flap closed or an approved grass catcher properly installed. NEVER attempt to operate the mower with the rear flap removed or propped open. Serious injury may result from operating the mower with the rear discharge open.

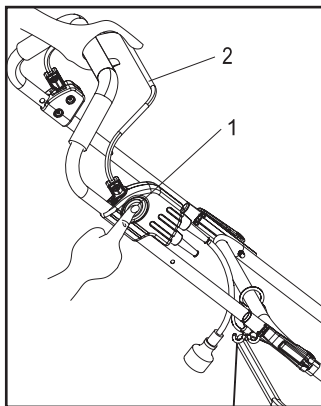
## **STARTING/STOPPING THE MOWER**

### **To start the motor:**

- Plug the mower into an approved outdoor extension cord.
- Press and hold the safety button (1).
- Pull the operating bail (2) upward to the handle to start the mower and release the button (1).

### **To stop the motor:**

- Release the operating bail.



**CAUTION:** DO NOT attempt to override the operation of the safety button or operating bail.



**WARNING:** The operation of any mower can result in foreign objects being thrown into the eyes, which can cause severe eye damage. Always wear safety glasses while operating the mower and while performing any adjustments or repairs.



**WARNING:** Ensure that other people and pets remain at least 100' (30 m) away when the mower is in use.

## INSPECT THE CUTTING AREA

Remove all stones, sticks, wire, bones, and other debris that might be thrown by the rotating blades.

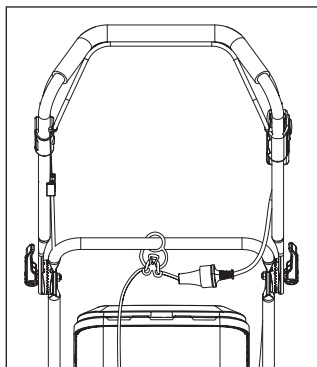
## USING THE CORD RETAINER

This lawn mower is equipped with a cord retainer in order to prevent the extension cord from disconnecting from the power cord while the mower is in use. The cord retainer hangs from the cord guide bar.

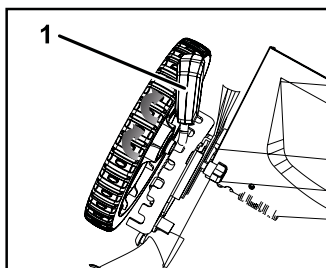
### To use the cord retainer:

- Fold the extension cord in order to forming a tight loop near the retainer.
- Push the loop through the bottom hole in the retainer.
- Slide the loop over the retaining clip, and pull down until the cord is secured.

*NOTE: Do not plug the extension cord into the outlet until it has been connected to the cord retainer and plugged into the mower.*



## CUTTING HEIGHT ADJUSTMENT



When shipped, the wheels on the mower are set at the lowest cutting position. Before using the mower for the first time, raise the cutting position to the height best suited for your lawn.

### To adjust the blade height:

- To raise the blade height, grasp the height adjustment handle (1) and move it toward the back of the mower.
- To lower the blade height, grasp the height adjustment handle (1) and move it toward the front of the mower.

## MOWING TIPS



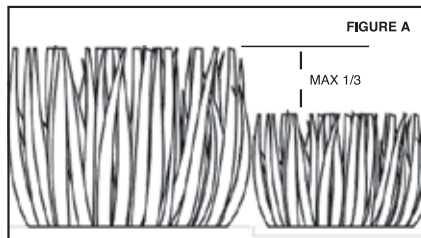
**CAUTION:** DO NOT use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower, and could void your warranty.

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For better grass bagging and most cutting conditions, the engine speed should be set in the fast position(if equipped).
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine airflow and extend engine life.

## MULCHING MOWING TIPS

**IMPORTANT:** For best performance, keep mower housing free of built-up grass and trash.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. ALWAYS mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried, yet the newly-cut area will not be exposed to direct sunlight.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades (Figure A). If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.



Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.

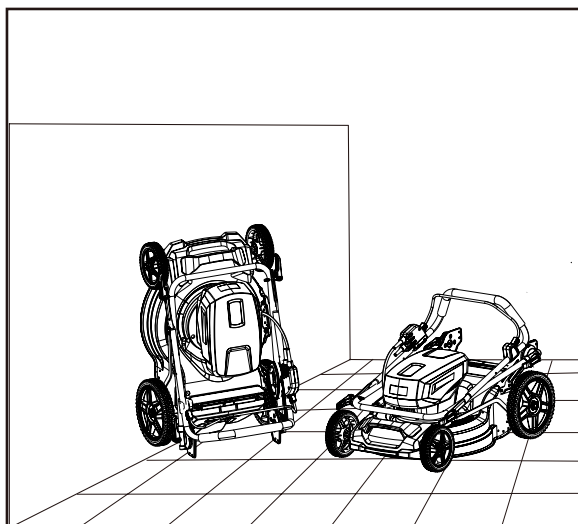
- Change your cutting pattern from week to week.
- Mow north to south one week, then east to west the next week. This will help prevent matting and graining of the lawn.

## **STORAGE**

- Stop the mower and unplug.
- Clean the exterior of the mower thoroughly using a soft brush and cloth. Do not use water, solvents or polishes. Remove all grass and debris, especially from the ventilation slots.
- Turn the mower on its side and clean the blade area. If grass cuttings are compacted in the blade area, remove with a wooden or plastic implement.
- Store the mower in a dry place. Do not place other objects on top of the mower.
- To aid storage, release the handle knob and rotate or fold the upper handle.
- Ensure cables are not stuck or entangled when folding or unfolding upper handles. Do not drop the handles.

## **VERTICAL STORAGE**

- Turn handle knobs to "unlocked" position and fold down handle.
- Tilt up and store
- Position the mower and make sure the blade is facing a wall.





## **MAINTENANCE**

### **TO EXAMINE THE BLADE**



**WARNING: ALWAYS stop the engine before you do work on the blade.** The blade continues to rotate after the throttle has been released. Make sure that the blade is fully stopped and disconnect the spark plug cap before you start work.

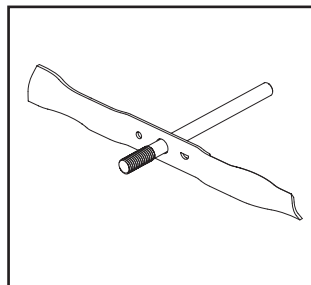


**CAUTION: For best results, keep the blade sharpened. Replace damaged blades immediately. DO NOT use a mower with damaged blade.**

- Examine the blade for cracks and other damage. A damaged blade must always be replaced.
- Always make sure that the blade is correctly ground and balanced. To examine blade balance, use a 7/8" (22 mm) diameter steel bolt, pin or a cone balancer. Obey the instructions included with the balancer.
- DO NOT use a nail to balance the blade. The lobes of the centre hole are not centred.
- Move the blade onto an unthreaded part of the steel bolt or pin, and hold the bolt or pin parallel to the ground. If the blade is balanced, it stays in the horizontal position.

If one of the two ends of the blade moves down, sharpen the heavy end until the blade is correctly balanced.

**NOTE:** The blades must be balanced after sharpening. DO NOT sharpen or balance the blade on your own. Speak to an approved service workshop.



### **TO REPLACE THE BLADE**

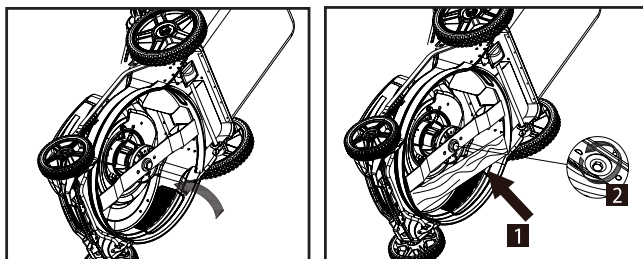


**WARNING: Use gloves and/or wind the blade with a heavy cloth to prevent injury to your hands.**



**CAUTION: Only use a replacement blade from an approved manufacturer. Using a blade not approved by the manufacturer is dangerous and can cause damage to the product and void the warranty.**

3. Turn the product on its side. When the product is tilted, make sure that the air filter is always put in the highest position.
4. Use a wood block between the blade and the mower housing to prevent the blade from turning when removing the blade bolt.



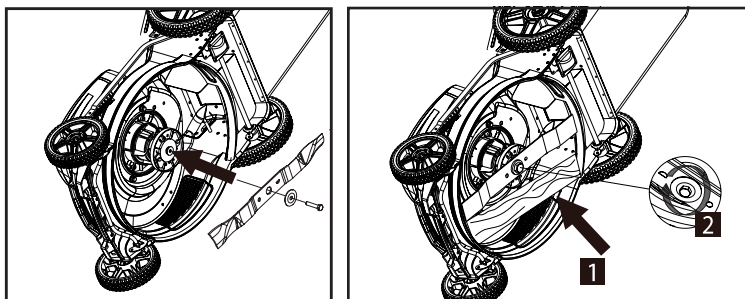
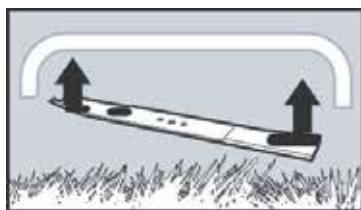
5. Remove the blade bolt by turning the bolt counterclockwise.

6. Remove the blade.

Make sure that the blade adapter is not damaged. Examine the blade bolt for damage and make sure the engine shaft is not bent.

### TO ASSEMBLE THE BLADE

1. Put the blade adapter on the engine crankshaft. Make sure the key in the adapter and crankshaft keyway are aligned.



2. Always attach the blade with the angled ends pointing up in the direction of the engine.

3. Use a block of wood between the blade and product housing. Tighten the blade bolt and turn it clockwise.

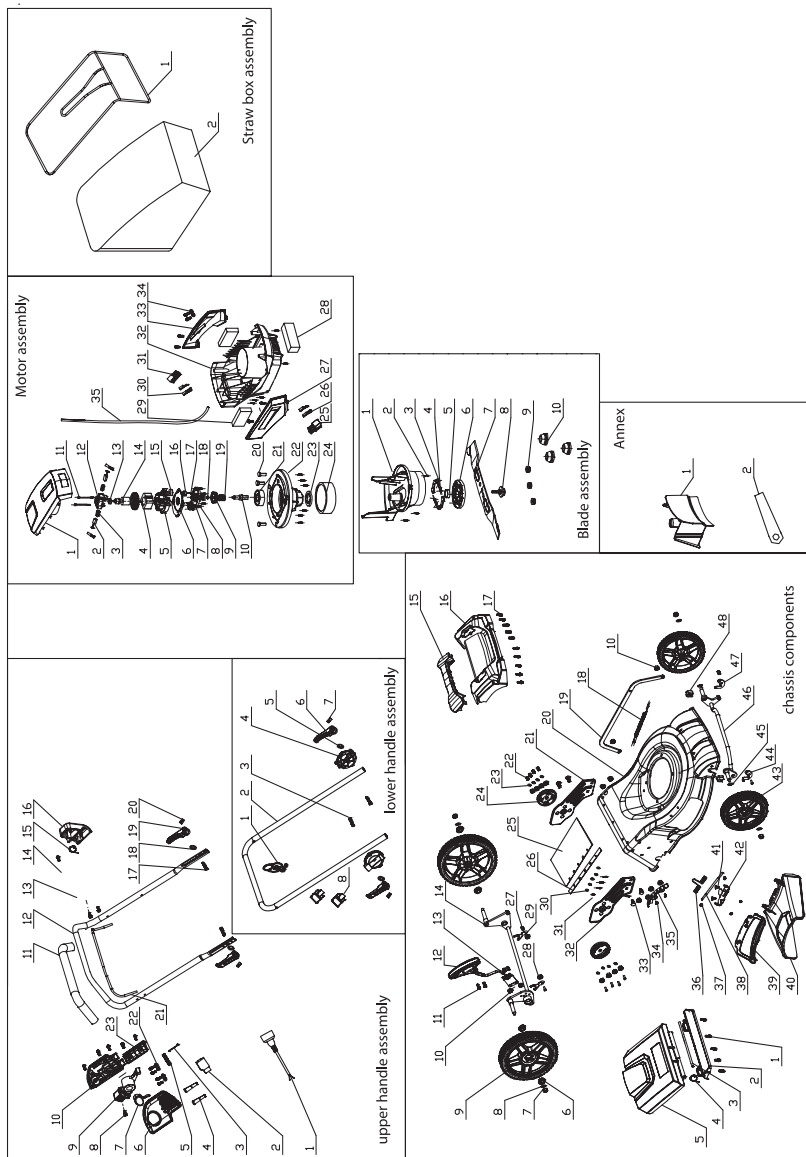
4. Always tighten the bolt with a torque of 33–40 ft-lb (45–55Nm).

5. Pull the blade around by hand and make sure it rotates freely.

## TROUBLESHOOTING

PROBLEM	SOLUTION
1. Mower doesn't run when operation bail is activated.	Release switch lever to turn mower off. Remove safety key, turn mower over and check that blade is free to turn. If not free, return to an authorized servicer. Blade should turn freely.
2. Motor stops while mowing.	A. Release switch lever to turn mower off. Remove safety key, turn mower over and check that blade is free to turn. If not free, return to an authorized servicer. Blade should turn freely.
	B. Raise cutting height of wheels to highest position and start mower.
	C. Avoid overloading the mower. Slow down the cutting pace by pushing mower slower or raise the cutting height. Or both.
3. Mower runs but cutting performance is unsatisfactory, or does not cut entire lawn.	A. Release operating bail to turn mower off. Turn mower over and check: Blade for sharpness - Keep blade sharp. Deck and discharge chute for clogging.
	B. Wheel height adjustment may be set too low for grass condition. Raise cutting height.
4. Mower is too hard to push.	A. Raise cutting height to reduce deck drag on grass. Check each wheel for free rotation.
5. Mower is abnormally noisy and vibrates.	A. Release operating bail to turn mower off. Turn mower on side and check blade to ensure it has not been bent or damaged. If blade is damaged, replace with a replacement blade. If the underside of the deck is damaged return mower to an Authorized service centre.
	B. If there is no visible damage to the blade and the mower still vibrates: Release switch lever to turn mower off, remove blade. Rotate blade 180 degrees and retighten. If mower still vibrates, return the mower to an authorized service centre.
6. Mower not picking up clippings with the grass collection bag.	A. Remove mulch plate when bagging.
	B. Chute clogged. Release operating bail to turn mower off. Clear chute of grass clippings.
	C. Too much cut grass. Raise cutting height of wheels to shorten length of the cut.
	D. Bag full. Empty bag more often.
7. When mulching there are clippings visible.	A. Too much cut grass. Raise cutting height of wheels to shorten length of the cut. Do not cut off more than 1/3 of total blade length.
	B. Check blade for sharpness. Always keep blade sharp.

### EXPLODED VIEW



## **PARTS LIST**

### **MOTOR ASSEMBLY**

<b>No.</b>	<b>PART CODE</b>	<b>DESCRIPTION</b>	<b>Qty</b>
01	ACAE011001	Cover	01
02	ACAE011002	Carbon brush	02
03	ACAE011003	Carbon brush sleeve	02
04	ACAE011004	Stator	01
05	ACAE011005	Wind deflector	01
06	ACAE011006	Motor bracket	01
07	ACAE011007	Gearbox cover plate	01
08	ACAE011008	Cross tapping screw	25
09	ACAE011009	Big gear wheel	01
10	ACAE011010	Output shaft	01
11	ACAE011011	Cross tapping screw	02
12	ACAE011012	Brush holder	01
13	ACAE011013	Bearing	02
14	ACAE011014	Rotor	01
15	ACAE011015	Bearing	01
16	ACAE011016	Wool felt	01
17	ACAE011017	Flat head screw	01
18	ACAE011018	Retaining ring (outer)	01
19	ACAE011019	Output torsion spring	01
20	ACAE011020	Hexagon bolt	03
21	ACAE011021	Bearing	01
22	ACAE011022	Gearbox base	01
23	ACAE011023	The friction plate	01
24	ACAE011024	Sound insulation sponge	01
25	ACAE011025	Plug in terminal sleeve (double hole)	01
26	ACAE011026	Plug in terminal (female)	02
27	ACAE011027	Side plate 1	01
28	ACAE011028	Air outlet sponge	01
29	ACAE011029	Air inlet sponge	02
30	ACAE011030	Plug in terminal (male)	02
31	ACAE011031	Plug in terminal sleeve (double hole)	01
32	ACAE011032	Power head base	01

No.	PART CODE	DESCRIPTION	Qty
33	ACAE011033	Side plate 2	01
34	ACAE011034	Cable pressing plate	01
35	ACAE011035	Connecting line	01

### GRASS CATCHER ASSEMBLY

No.	PART CODE	DESCRIPTION	Qty
01	ACAE011036	Grass collection bag	01
02	ACAE011037	Grass box rack	01

### UPPER HANDLE ASSEMBLY

No.	PART CODE	DESCRIPTION	Qty
01	ACAE011038	Power cord	01
02	ACAE011039	Switch	01
03	ACAE011040	Switch spring	01
04	ACAE011041	Cable sheath	02
05	ACAE011042	Unlock button spring	01
06	ACAE011043	Left cover of switch box	01
07	ACAE011044	Switch unlock button	01
08	ACAE011045	Cross tapping screw	13
09	ACAE011046	Switch trigger seat 1	01
10	ACAE011047	Right cover of switch box	01
11	ACAE011048	Sponge cover	01
12	ACAE011049	Upper handle	01
13	ACAE011050	Tie rod fixing seat 1	01
14	ACAE011051	Switch trigger seat 2	01
15	ACAE011052	Switch button spring	01
16	ACAE011053	Tie rod fixing seat 2	01
17	ACAE011054	Square head screw	02
18	ACAE011055	Shim	02
19	ACAE011056	Quick lock wrench	02
20	ACAE011057	Screw pin	02
21	ACAE011058	Switch lever	01
22	ACAE011059	Cable pressing plate	02
23	ACAE011060	Switch box fixing plate	01

**LOWER HANDLE ASSEMBLY**

No.	PART CODE	DESCRIPTION	Qty
01	ACAE011061	Thread buckle	01
02	ACAE011062	Lower handle	01
03	ACAE011063	Square head screw	02
04	ACAE011064	Adjusting block - outer	02
05	ACAE011065	Shim	02
06	ACAE011066	Quick lock wrench	02
07	ACAE011067	Screw pin	02
08	ACAE011068	Thread buckle	02

**CHASSIS COMPONENTS**

No.	PART CODE	DESCRIPTION	Qty
01	ACAE011069	Flat head screw	05
02	ACAE011070	Dust shield	01
03	ACAE011071	Round bar	01
04	ACAE011072	Torsion spring of rear cover	01
05	ACAE011073	Rear cover plate	01
06	ACAE011074	Ball bearing	08
07	ACAE011075	Hexagon flange metal lock bolt	08
08	ACAE011076	Shim	02
09	ACAE011077	Rear wheel (250mm)	02
10	ACAE011078	Lock nut	03
11	ACAE011079	Cross tapping screw	02
12	ACAE011080	Raise handle	01
13	ACAE011081	Raise the handle	01
14	ACAE011082	Rear axle	01
15	ACAE011083	Front face handle	01
16	ACAE011084	Front face (cover)	01
17	ACAE011085	Cross tapping screw	10
18	ACAE011086	Connecting rod tension spring	01
19	ACAE011087	Adjusting link	01
20	ACAE011088	18 inch base	01
21	ACAE011089	Left armrest bracket (2.5mm plate)	02
22	ACAE011090	External hexagon bolt	08

<b>No.</b>	<b>PART CODE</b>	<b>DESCRIPTION</b>	<b>Qty</b>
23	ACAE011091	Shim	02
24	ACAE011092	Regulating block - Inner	02
25	ACAE011093	Mudguard	01
26	ACAE011094	Mudguard strip	01
27	ACAE011095	Hexagon flange bolt	06
28	ACAE011096	Flange lock nut	16
29	ACAE011097	Rear axle clamp	02
30	ACAE011098	Flat gasket	05
31	ACAE011099	Blind rivet	05
32	ACAE011100	Right armrest bracket (2.5mm)	01
33	ACAE011101	Half round head square neck bolt	04
34	ACAE011102	Half round head square neck bolt	02
35	ACAE011103	Gear plate	01
36	ACAE011104	Side row cover button spring	01
37	ACAE011105	E type circlip	02
38	ACAE011106	Shaft	01
39	ACAE011107	Side row cover	01
40	ACAE011108	Straw guide tube	01
41	ACAE011109	Side row bracket screw	02
42	ACAE011110	Side row bracket	01
43	ACAE011111	Front wheel (175mm)	02
44	ACAE011112	Left front axle pressing plate	01
45	ACAE011113	Corrugated gasket	02
46	ACAE011114	Front axle	01
47	ACAE011115	Right front axle pressing plate	01
48	ACAE011116	Axle hoop	02

## ANNEX

<b>No.</b>	<b>PART CODE</b>	<b>DESCRIPTION</b>	<b>Qty</b>
01	ACAE011127	Plug (block)	01
02	ACAE011128	Blade wrench	01



**BLADE ASSEMBLY**

<b>No.</b>	<b>PART CODE</b>	<b>DESCRIPTION</b>	<b>Qty</b>
01	ACAE011117	Belt cover	01
02	ACAE011118	Cross tapping screw	03
03	ACAE011119	Brake pads	02
04	ACAE011120	Brake spring	02
05	ACAE011121	Fastening ring	01
06	ACAE011122	Cutter head	01
07	ACAE011123	Blade	01
08	ACAE011124	Blade locking bolt	01
09	ACAE011125	Flange lock nut	03
10	ACAE011126	Shock pad	03

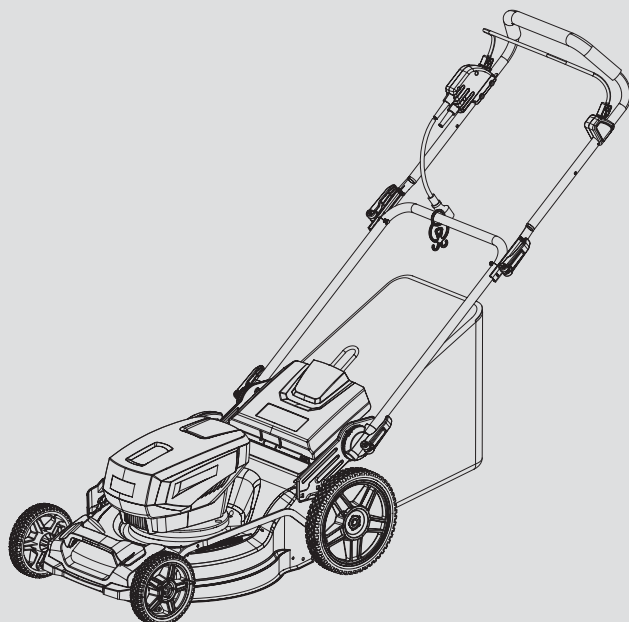


## **WARRANTY**

### **BENCHMARK 15 AMP 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**. 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.

# 15 AMP LAWN MOWER



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