

BENCHMARK

®

201CC 3 IN 1 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

Model number:	5124-029
Engine:	Benchmark
Engine displacement:	201 CC
Start type:	Recoil & electric start
Cutting width:	21" (53cm)
Cutting height:	1.25" - 3.75" (32mm - 95mm)
Battery pack (B0P-SP07-20-G):	20 V d.c., 2.0 Ah, Lithium-ion
Charger (HY1302100500UL):	Output 21 V d.c., 2.4 A
Wheel size:	8" / 12" (20cm / 30cm)
Variable speed:	Up to 2.5 MPH (4.0 KPH)
Grass catcher capacity:	2 Bushel

Should you experience any problem you cannot easily resolve, please contact your nearest authorized service center or call: 1-833-818-4111 - Monday through Friday, 9am – 5pm, Eastern Standard Time.

ENGINE KEY SPECIFICATIONS

Gasoline type:	Unleaded Regular (Maximum 10% ethanol)
Oil type (API: SG-SL):	SAE 30 or SAE 10W30
Oil capacity:	Max. 17 o.z. (0.5 L)
Spark plug:	See engine manual

IMPORTANT NOTE: Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of ANY gasoline exceeding 10% ethanol (E10) violates federal law and will void the product warranty.

START-UP CHECKLIST

Before you start up your new mower, we wish to ensure that you receive the best performance and satisfaction from this quality product.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

- All assembly instructions have been completed.
- No remaining loose parts in the carton.
- The battery is properly prepared and charged.
- Before starting to mow, make sure the area is clear of debris or objects that may be thrown by the blades.
- Check the engine oil level before starting the machine.
- Ensure a responsible adult, other than the operator, is supervising children in a safe location AWAY FROM THE MOWING AREA before starting the mower.
- Be sure the Operator Presence Control (OPC) is working properly.

TABLE OF CONTENTS

Product specifications	1
Table of contents	2
General safety warnings	3
Safety	4-6
Setup	7-12
Know your lawn mower	13
Symbols	14
Safety symbols	15-16
Operation	17-22
Maintenance	23-27
Troubleshooting	28
Exploded view	29-30
Parts list	31-37
Warranty	38

PLEASE READ AND RETAIN THIS INSTRUCTION MANUAL. These instructions will enable you to assemble and maintain your lawn mower properly. ALWAYS observe the "SAFETY RULES":

The instruction manual was designed to conveniently help you get your purchase ready to use so there's less risk of damaging it and to provide you with enough information for you to get familiar with your product's controls and features to operate it safely. This manual however, is NOT a replacement for you reading your complete owner's manual and all the details it covers, such as mower maintenance, adjustments and storage.



KIDS AND MOWERS DON'T MIX! Tragic accidents can happen. You can SEVERELY INJURE or KILL a child with a lawn mower. Please leave children indoors and supervised!



CAUTION: The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. ALWAYS wear safety glasses or eye shields while operating your lawn mower or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn over spectacles.



Please read this manual carefully and make sure you understand the instructions before using the machine.

SAFETY

SAFE OPERATION PRACTICES FOR PEDESTRIAN CONTROLLED LAWN MOWERS



DANGER: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.



WARNING: This mower is equipped with an internal combustion engine and should NOT be used on or near any unimproved forest-covered, brush-covered, or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or provincial laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. A spark arrester for the muffler is available through your nearest authorized service centre/department.



CAUTION: Muffler and other engine parts become extremely hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.



WARNING:

- A) Do not operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.
- B) Always keep the machine in gear when going down slopes. Do not coast downhill.
- C) Avoid starting and stopping on slopes. Avoid making sudden changes in speed or direction. Make turns slowly and gradually.

I. CHILDREN



WARNING: CHILDREN CAN BE SERIOUSLY INJURED OR KILLED BY THIS EQUIPMENT. Carefully read and follow all of the safety instructions below.

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

- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.

- Be alert and turn machine off if a child enters the area.
- Before and while backing up, look behind and down for small children.
- Use extra care when approaching blind corners, shrubs, trees or other objects that may block your view of a child.
- **NEVER OPERATE THE MOWER WHEN CHILDREN ARE PRESENT.**

II. SLOPE OPERATION

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

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

III. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the instruction manual before starting.
- **DO NOT** put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Allow only responsible adults familiar with the instructions to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades. Stay behind the handles while the engine is running.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- **DO NOT** operate the mower when barefoot or while wearing sandals. **ALWAYS** wear substantial footwear.
- **DO NOT** pull mower backwards unless absolutely necessary. **ALWAYS** look down and behind before and while moving backwards.
- **NEVER** direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- **DO NOT** operate machine without the entire grass catcher, discharge chute or other safety devices in place and working.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- **NEVER** leave a running machine unattended.
- Stop the engine (motor) and wait until the blade comes to a complete stop before cleaning the mower, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.

- DO NOT operate the machine while under the influence of alcohol or drugs.
- NEVER operate machine in wet grass. ALWAYS be sure of your footing; keep a firm hold on the handle and walk; NEVER run.
- Disengage the drive system on mowers so it is equipped before starting the engine (motor).
- If the equipment should start to vibrate abnormally, stop the engine (motor) and check for the cause immediately. Vibration is generally a warning of trouble.
- ALWAYS wear eye protection when operating the machine.

IV. SERVICE

SAFE HANDLING OF GASOLINE

- To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- Extinguish all cigarettes, cigars, pipes and other sources of ignition.
- Use only an approved gasoline container.
- NEVER remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- NEVER fuel the machine indoors.
- NEVER store the machine or fuel container where there is an open flame, spark or pilot light such as on a water heater or other appliances.
- NEVER fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. ALWAYS place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. DO NOT use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- NEVER overfill fuel tank. Replace gas cap and tighten securely.

GENERAL SERVICE

- NEVER operate machine in a closed area.
- Keep all nuts and bolts tight to ensure the equipment is in safe working condition.
- NEVER remove or tamper with any safety devices. Check their proper operation regularly. NEVER do anything to interfere with the function of a safety device or to reduce the protection offered by the safety device.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

SETUP

PREPARING THE ENGINE

- **IMPORTANT:** This lawn mower is shipped **WITHOUT OIL OR GASOLINE** in the engine.
- **NOTE:** Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.

V. CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your lawn mower.
- Wear proper personal protective equipment (PPE) while operating this machine, including (at a minimum) sturdy footwear, eye protection and hearing protection. **DO NOT** mow in shorts and/or open-toed footwear.
- **NEVER** attempt to make any adjustments or repairs while the engine (motor) is running. Disconnect the spark plug wire and ground against the engine to prevent unintended starting.
- Check grass catcher components and the discharge chute frequently, and replace with manufacturer's recommended parts when necessary.
- Mower blade is sharp. Wrap the blade or wear gloves and use extra caution when servicing it.
- **DO NOT** change the engine governor setting or over speed the engine.
- Maintain or replace safety and instruction labels as necessary.
- **ALWAYS** let someone know you are outside mowing.
- **NEVER** allow children in the vicinity of any operating mower, even if the blades are off. Children should be under the supervision of a responsible adult other than the operator for the duration of the mowing operation.
- Follow the instructions under "Maintenance" section of the operator's manual.



CAUTION: An Operator Presence Control is installed on this lawn mower in order to minimize the risk of blade contact injury. DO NOT under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

ASSEMBLY/ PRE-OPERATION



CAUTION: Read complete INSTRUCTION MANUAL before operating this machine.

IMPORTANT: THIS LAWN MOWER IS SHIPPED WITHOUT OIL OR GASOLINE IN THE ENGINE.

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.

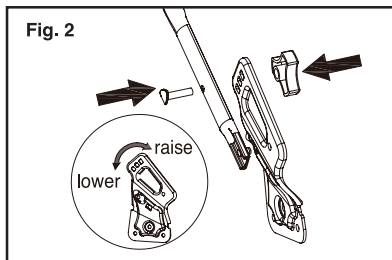
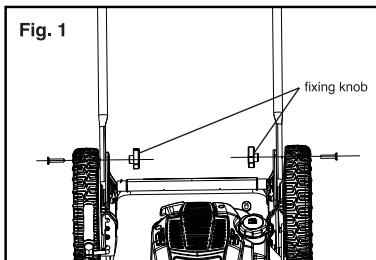
SETUP

TO REMOVE LAWN MOWER FROM CARTON

1. Remove loose parts included with mower.
2. Cut down two end corners of carton and lay end panel down flat.
3. Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
4. Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

HOW TO SET UP YOUR LAWN MOWER

IMPORTANT: Unfold handle carefully to avoid pinching or damaging the control cables.



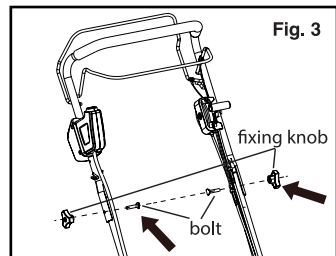
1. Insert the lower handle to the two side brackets on the mower deck. Use corresponding holes on the brackets when attaching lower handle pin for a suitable handle height desired. Fasten the lower handle to the lawn mower by using handle bolts, install and tighten knobs to secure the handle. (Fig. 1 & 2)

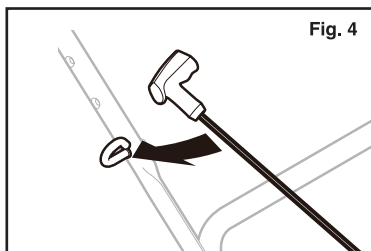
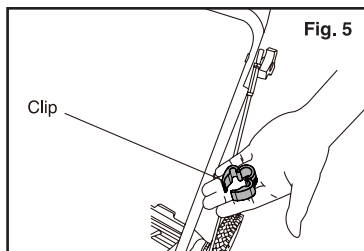
NOTE: The washer should be pressed against the inner face of the bracket.

2. Attach the upper handle into place and attach it to lower handle by using handle bolts.

3. Install and tighten knobs to secure the handle. (Fig. 3)

NOTE: Your lawn mower handle can be adjusted for your mowing comfort. Refer to the "TO ADJUST HANDLE" section of the operator's manual.



**Fig. 4****Fig. 5**

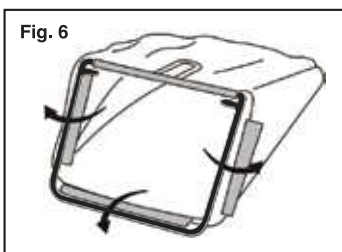
5. Slip starter rope into loop on upper handle. (Fig.4)

6. Attach the bowden cable and electric start cable to the handle with the cord clip (supplied). (Fig. 5)

TO ASSEMBLE THE GRASS CATCHER As shown in Fig. 6

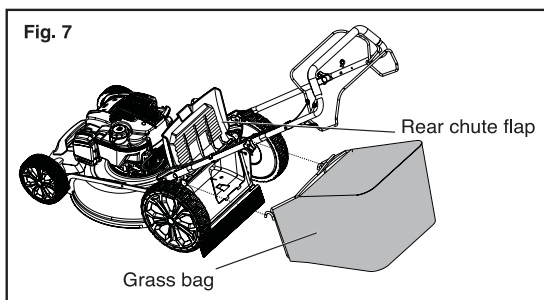
1. The grass bag already be half assembled. Make sure the frame handle is outside of the bag top.

2. Slip the vinyl bindings over the frame.

**Fig. 6**

ATTACHING THE GRASS BAG TO THE MOWER

As shown in Fig. 7

**Fig. 7**

NOTE: Never install or remove the grass bag, mulch plug or side discharge chute while the engine is running.

1. Lift the rear chute flap with one hand and hook in the grass bag, make sure the mulch plug be removed.

2. Release the rear chute flap to secure the grass bag in position.

TO PREPARE BATTERY



CAUTION:

1. Improper use of battery pack and charger can result in electric shock and fire.
2. Keep battery charger and pack dry. Avoid exposing battery pack and charger to rain or wet conditions.
3. To reduce the risk of electric shock, do not allow water to flow in AC plug.
4. Do not short circuit. Never place any object into the battery pack terminals.

NOTE: Your battery must be charged before you can start your lawn mower using the electric start.

CHARGING BATTERY PACK (Fig. 8)

NOTICE:

- The battery pack is supplied partially charged. To ensure the best performance, charge the battery completely before first use.

- Make sure the main voltage is the same as rating label which is located on the charger.

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

1. Connect the charger to a power supply. The green LED light on the charger will illuminate.

2. To insert the battery pack into the charger, align the grooves on the battery pack with the raised ribs in the opening of the charger.

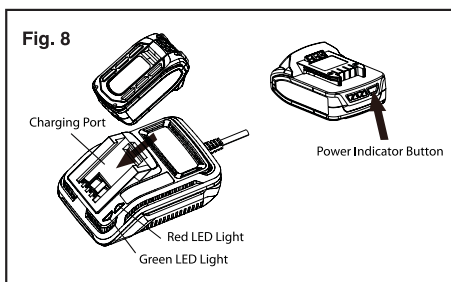
3. Once the battery pack is correctly located in the charger, the red LED light of the charger will flash continuously during normal charging.

4. When charging is complete, the green LED light of the charger will illuminate.

5. When there is problem on the battery pack, the red LED light of the charger will illuminate.

6. Do NOT charge batteries when the work area or the battery temperature is at or below 5°C / 41° F or above 40.5°C / 105° F.

- This 20V Li-Ion battery pack is equipped with a power indicator which is used to show the battery pack's remaining charge. Press the power indicator button to check battery charge as shown above.



INSTALL BATTERY PACK (Fig. 9)

1. Make sure the operator presence control bar is released.

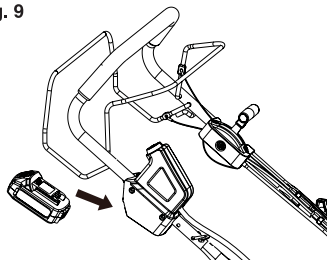
2. The battery bay is located on the top handle of the lawn mower. Slide in the battery

pack until it locks with an audible "click". Verify it is securely installed.

3. To check the battery charge level, first remove it from the battery bay by pressing the release button. When pressing the indicate button, the display will show the current charge level. Three lights, battery power above 50 %, up to 80 start cycles; one light, power above 10%, up to 5 start cycles.

IMPORTANT: THE ENGINE WILL NOT RECHARGE YOUR BATTERY. The battery will need to be recharged periodically.

Fig. 9



CAUTION: ALWAYS disconnect the battery pack to prevent accidental starting when transporting or storing your lawn mower after the season.

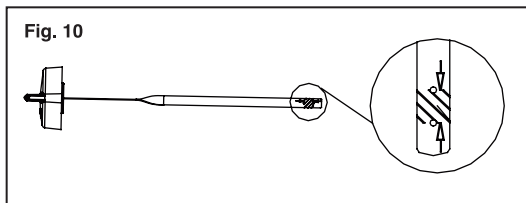
At the end of the mowing season, the battery should be charged fully to protect the battery during winter storage.

Do not store batteries in a garage or shed over the winter as it will damage battery life.

ADD OIL (Fig. 10)

IMPORTANT: Check oil level before each use. Add oil if needed. Fill to "Full" line on dipstick.

Fig. 10



1. Be sure lawnmower is level.
2. Remove oil dipstick from oil fill spout.
3. Use the recommended engine oil.
4. Pour oil slowly. DO NOT overfill. Wait one minute to allow oil to settle. Insert and tighten dipstick, then remove it to check oil level.
5. Before using for the first time, add maximum 17 oz (502.75mL) of oil (SAE 30/10W-30).

ADD GASOLINE

Fill fuel tank to bottom of tank filler neck. DO NOT overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane.

DO NOT mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

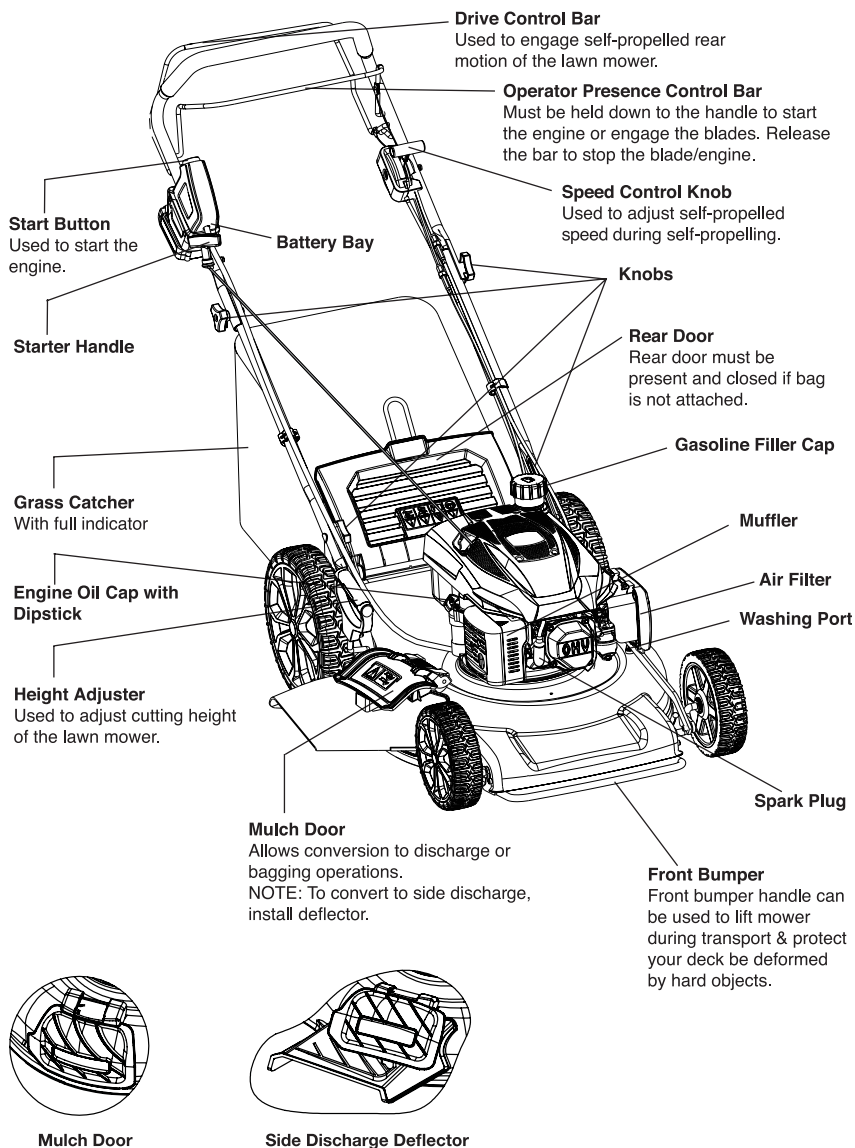


CAUTION: Wipe off any spilled oil or fuel. DO NOT store, spill or use gasoline near an open flame.



Alcohol-blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Empty the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. NEVER use engine or carburetor cleaner products or permanent damage may occur.















KNOW YOUR LAWN MOWER (FIG.11)




SYMBOLS

	Oil
	Fuel
	Engine off
	Engine on
	Choke
	Fast
	Slow







SAFETY SYMBOLS

SAFETY	
	DANGER: KEEP HANDS AND FEET AWAY (See SAFETY section). *These symbols may appear on your lawn mower or in the literature supplied with the product. Learn and understand their meaning.
	HAZARD ALERT - The hazard alert symbol informs the user of potential hazards.
	READ THE OPERATOR'S MANUAL(S) - Read, understand, and follow all instructions in the manual(s) before attempting to assemble and operate.
	Wear hearing protection.
	Wear eye protection.
	DANGER — ROTATING BLADES - To reduce the risk of injury, keep hands and feet away. Do not operate unless discharge cover or grass catcher is in its proper place. If damaged, replace immediately.
	DANGER — BYSTANDERS - Do not mow when children or others are around.
	Look down and behind before and while backing up.
	DANGER — ROTATING BLADES - Never operate the machine without proper guards, plates, or other safety protective devices in place.
	DANGER — HAND/ FOOT CUT - Keep hands and feet away from rotating parts.
	DANGER — THROWN DEBRIS - Remove objects that can be thrown by the blade in any direction. Wear safety glasses.
	DANGER — SLOPES - Use extra caution on slopes. Do not mow slopes greater than 15°.
	WARNING — GASOLINE IS FLAMMABLE - Allow the engine to cool at least two minutes before refueling.
	WARNING — CARBON MONOXIDE - Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

	WARNING — HOT SURFACE - Engine parts, especially the muffler, become extremely hot during operation. Allow engine and muffler to cool before touching.
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GLOSSARY OF SAFETY SYMBOLS

Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.

	DANGER indicates a hazard which, if not avoided, WILL result in death or serious injury.
	WARNING indicates a hazard which, if not avoided, COULD result in death or serious injury.
	CAUTION indicates a hazard which, if not avoided, COULD result in minor or moderate injury.
	CAUTION when used without the alert symbol, indicates a situation that could result in damage to the lawn mower and/or engine.
	HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.
	FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

OPERATION

TO START THE ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the lawn mower. This is normal.

NOTE: Your engine may be equipped with an automatic choke system. No priming or choking is required before starting for these models.

TO START THE ENGINE USING STARTER ROPE (Fig. 12)

1. To start the engine using the starter rope, hold the operator presence control bar down to the upper handle.
2. Pull the starter handle (at the end of the starter rope) quickly. DO NOT allow the starter rope to snap back.

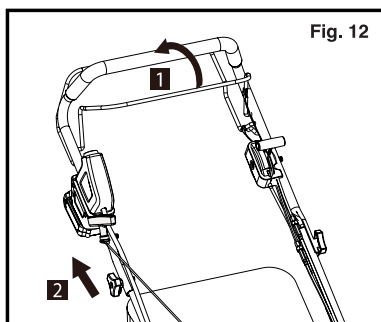


Fig. 12

TO START THE ENGINE USING THE START BUTTON (Fig. 13)

1. To start the engine, hold the operator presence control bar down to the handle.
2. Press the start button to start the engine.

IMPORTANT NOTE: DO NOT CRANK THE ENGINE CONTINUOUSLY FOR MORE THAN FIVE SECONDS EACH TIME YOU TRY TO START. WAIT FIVE TO TEN SECONDS BETWEEN EACH ATTEMPT TO START.

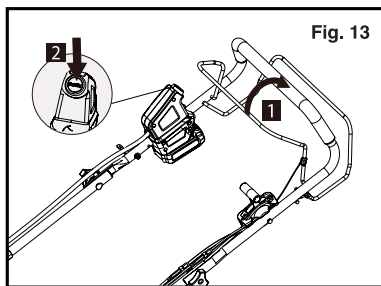


Fig. 13

TO STOP THE ENGINE AND BLADE (Fig. 14)

To stop the engine, release the operator presence control bar.

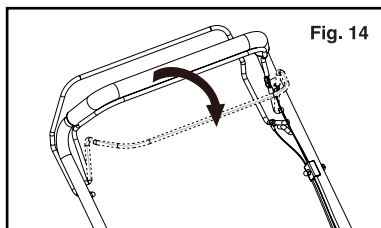


Fig. 14

TO SET THE MOWER CUTTING HEIGHT

IMPORTANT NOTE: MAKE SURE ENGINE AND BLADE ARE STOPPED.

Adjust the cutting height to suit your requirements. The middle position is suitable for most lawns. Raise the mower for high cut and lower the mower for low cut.

NOTE: For shipping purposes the height adjustment position may not be adjusted to the cutting position. Before operating the mower adjust cutting height to the normal cutting position.

SINGLE POINT HEIGHT ADJUSTMENT (Fig. 15)

All four wheels are adjusted by a single lever.

1. Pull height adjuster toward wheel.
2. To raise the mower, move the lever forward to desired position. To lower the mower, move the lever toward the rear.

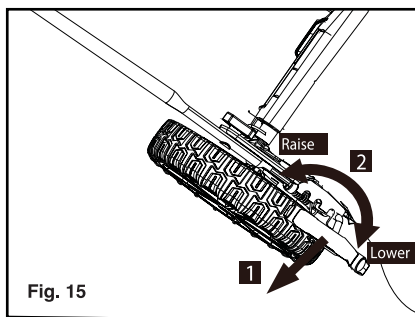


Fig. 15

DRIVE CONTROL (Fig. 16)

Self-propelling is controlled by holding the operator presence control bar down to the handle and pulling the drive control bar rearward to the handle. This machine is equipped with variable speed system. Push the speed control knob towards the direction of A, the faster the machine will travel, push the speed control knob to the direction of B, the slower the machine will travel.

Note: The self-propelling speed can be adjusted only when the drive control bar is actuated.

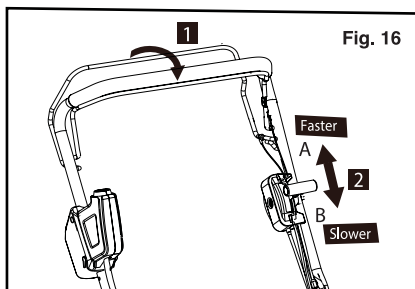


Fig. 16

2. To stop forward motion without stopping the engine, release the drive control bar only. Hold the operator presence control bar down against the handle to continue mowing without self-propelling.

DRIVE ADJUSTMENT (Fig. 17)

Note: The drive system consists of pulleys, a belt, and a bowden cable linking the transmission to the drive handle. As these components wear, adjustment may be needed. To adjust the drive linkage perform the following:

- Loosen the locking nut with a wrench (not supplied).
- Hold the upper bolt and turn the lower bolt clockwise to shorten the bowden cable,

counterclockwise to lengthen the bowden cable.

- Start the mower to test the function of the drive control lever and tighten the locking nut once self-propel can engage.

Note: The bowden cable must be loose with the self-propel drive control lever in the released position; otherwise, the machine may creep when the drive control lever is disengaged.

Note: Self-propelled speed can change on slopes.

NOTE: After releasing the drive control lever, if the mower will not roll backwards, push the mower forward slightly to disengage the drive wheels.

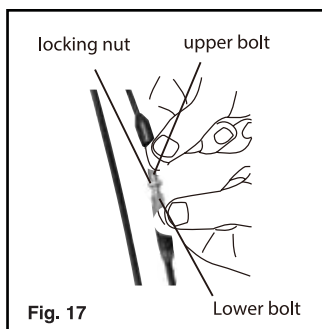


Fig. 17

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

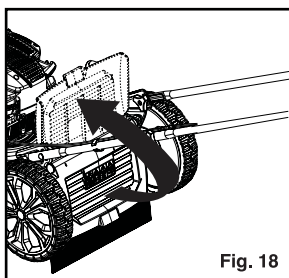
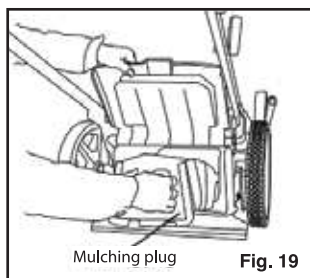


Fig. 18



Mulching plug

Fig. 19

1. Lift rear door of the lawn mower (Fig. 18).
2. Remove the mulching plug when you set your lawn mower for rear bagging (Fig. 19).

- Place the grass catcher frame hooks onto the grass bag brackets (Fig. 20).
- Close the rear door and ensure that rear door covers any gap between mower deck and bagging unit.
- Empty the grass catcher if the full indicator on the top cover closed.

NOTE: To convert to mulching or discharging operation, remove grass catcher, assemble the mulching plug and close the rear door.

SIDE DISCHARGING (Fig. 21)

IMPORTANT: THE REAR DOOR MUST BE CLOSED.

- Assemble the mulch plug.
- Open the mulch door.
- 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

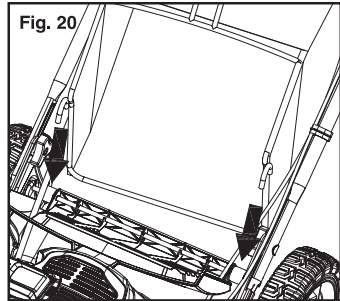


Fig. 20

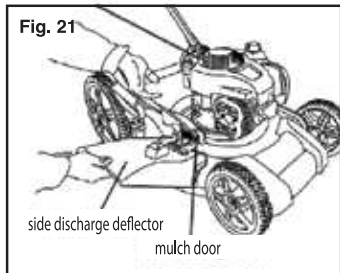


Fig. 21

side discharge deflector
mulch door

MULCHING (Fig. 22)

- Open the mulch door.
- Remove the discharge deflector.
- 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 door is closed.
- The mulch door is closed, and the mulching plug must be assembled.

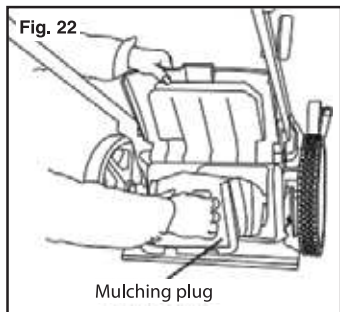


Fig. 22

Mulching plug

FOR REAR BAGGING

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

FOR SIDE DISCHARGING

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



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

MOWING TIPS



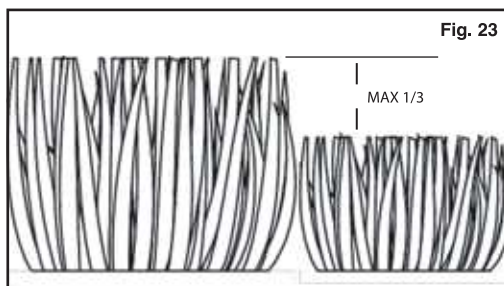
CAUTION: DO NOT use dethatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower, and could void your warranty.

- 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.
- 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 off 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. See "Cleaning" in the Maintenance section of the operator's manual.

- 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 (Fig. 23). 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.

MAINTENANCE

THE OPERATOR'S MANUAL FOR YOUR PARTICULAR PRODUCT IS AVAILABLE BY CALLING 1-833-818-4111.

		Before Each Use	After Each Use	Every 10 Hours	25 Hours Or Season	Every 100 Hours	Before Storage
LAWN MOWER	Check for loose fasteners	x					x
	Clean/inspect grass catcher	x	x				x
	Check tires	x					
	Clean drive wheels	x					
	Clean lawn mower		x				x
	Clean under drive cover			x			
	Check drive belt/pulleys				x		
	Check/sharpen/replace blade				x		
	Lubrication				x		
	Clean and recharge battery				x		x
ENGINE	Check engine oil level	x					
	Change engine oil				x		
	Clean air filter				x		
	Inspect muffler				x		
	Replace spark plug					x	
	Replace air filter paper cartridge					x	
	Empty fuel system or add stabilizer						x

NOTES: (1) Change more often when operating under a heavy load or in high ambient temperatures. (2) Service more often when operating in dirty or dusty conditions. (3) Replace blades more often when mowing in sandy soil.

TO EXAMINE THE BLADE (Fig. 24)



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.



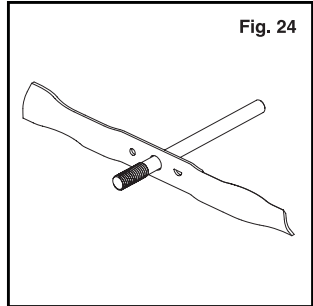
CAUTION: For best results, keep the blade sharpened. Replace damaged blades immediately. DO NOT use a mower with damaged blades.

- 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.

Fig. 24



TO REPLACE THE BLADE

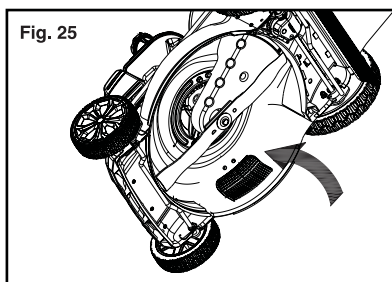
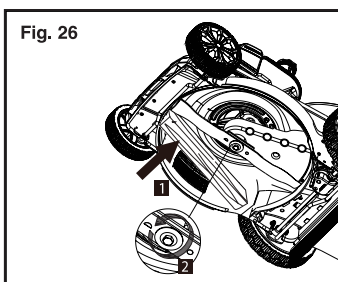


WARNING: Use gloves and/or wind the blade with a heavy cloth to prevent injury to your hands.



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.

1. Always disconnect the spark plug before you do maintenance.
2. Always empty the fuel tank before you put the product on its side. Empty the fuel tank by operating the machine until the tank is empty.

**Fig. 25****Fig. 26**

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 (Fig. 25).

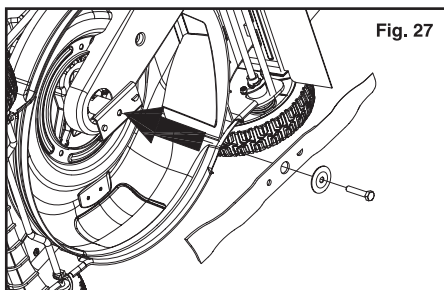
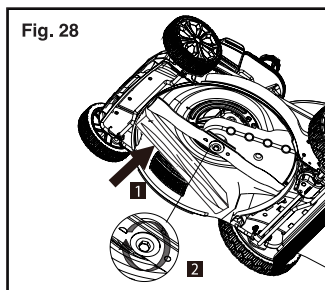
4. Use a wood block between the blade and the mower housing to prevent the blade from turning when removing the blade bolt (Fig. 26).

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

6. Remove the blade.

NOTE: 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

**Fig. 27****Fig. 28**

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 (Fig. 27).

3. Use a block of wood between the blade and product housing. Tighten the blade bolt and turn it clockwise (Fig. 28).

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

5. Make sure the spark plug cable is disconnected from the engine.

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



CAUTION: To prevent accidental start, always disconnect the spark plug cable and put the wire where it cannot touch the spark plug.

TO MAINTAIN THE SPARK PLUG (Fig. 29)

1. Once the engine has cooled, pull off the spark cover with a twist.
2. Remove the spark plug using a spark plug wrench (not supplied).
3. Clean the spark plug with a wire brush (not supplied).
4. Using a feeler gauge, set the gap to 0.7–0.8 mm.
5. Install the spark plug carefully by hand to avoid cross-threading.
6. After the spark plug is seated, tighten with the spark plug wrench to compress the washer.

Fig. 29

0.7–0.8 mm



TO MAINTAIN THE AIR FILTER (Fig. 30)

Soiled air filters reduce the engine output by supplying too little air to the carburetor. If the air contains a lot of dust, the air filter should be checked more frequently.



CAUTION! Never run the engine without the air filter element installed.

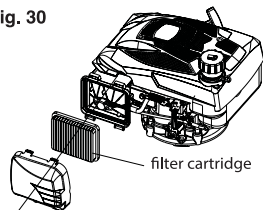
1. Remove the air filter cover.
2. Remove the filter cartridge.
3. To loosen debris, gently tap the filter cartridge on a hard surface. If the filter cartridge is excessively dirty, replace with a new one.



CAUTION! Never clean the air filter cartridge with gas or flammable solvents. Clean the air filter cartridge only with compressed air or by tapping it.

4. Install the filter cartridge.
5. Close the cover with an audible "click".

Fig. 30



WASHING THE MOWER DECK

The washing port allows you to connect a typical garden hose to the mower deck to remove grass and debris from the underside.



CAUTION! Contact with the mower blade, or with objects thrown by the mower blade, could result in death or serious injury.

- Before running the mower, make sure the hose is properly connected and does not come into contact with the blade.
 - When the mower is running, the person cleaning the mower deck must be in the operator position, with no bystanders in the area.
1. Place the unit on a smooth level surface.
 2. Place the mower in the highest cutting position. See Single Point Height Adjustment.
 3. Attach a garden hose to the washing port (Fig. 31) on the mower deck.
 4. Run water to remove grass and debris from the underside of the mower deck.
 5. Turn the mower on.
 6. Turn the mower off.
 7. Remove the garden hose from the washing port when completed.

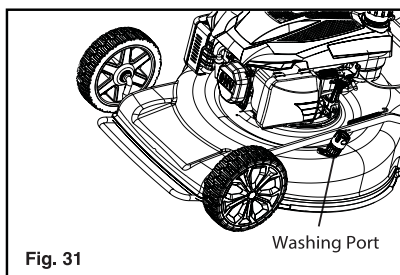
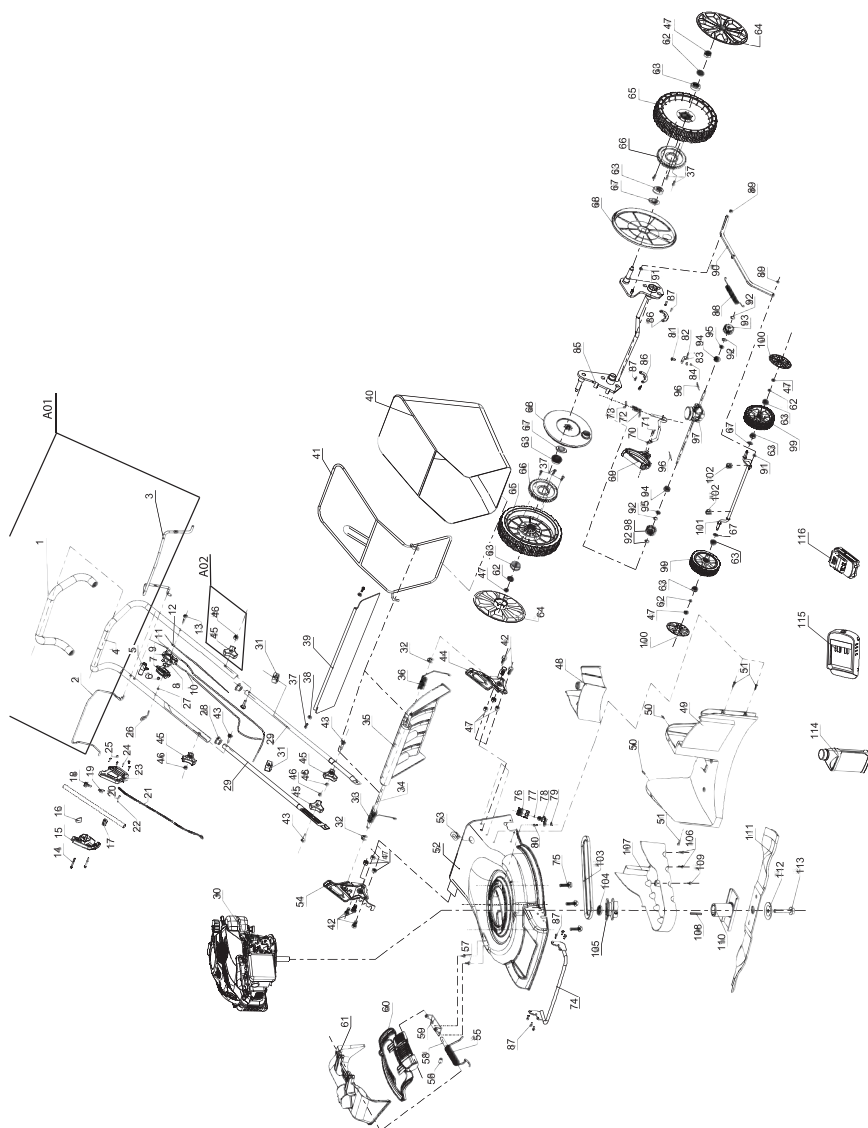


Fig. 31

TROUBLESHOOTING

FAULT/MALFUNCTION	CAUSE	SOLUTION
Loud while running; machine vibrates heavily.	Screws are loose.	Tighten screws.
	Blade fasteners are loose.	Tighten blade fasteners.
	Blade is unbalanced.	Replace blade.
Engine does not start.	Start/stop lever not pressed.	Press start/stop lever.
	Spark plug is defective.	Replace spark plug.
	Cutting blade is worn or damaged.	Replace it through the customer service centre.
	Fuel tank is empty.	Refill with fuel.
	Engine may be flooded.	Remove plug and dry.
	Electric start battery pack isn't assembled.	Assemble the battery pack before use.
	Battery pack out of power.	Charging Battery pack before use.
Engine runs unsteadily.	Air filter is soiled.	Clean the air filter.
	Spark plug is soiled.	Clean the spark plug.
Uneven mowing results.	Blade is blunt.	Sharpen the blade.
	Cutting height is too low.	Set correct height.
Grass bag is not filled sufficiently.	Blade is worn.	Replace the blade.
	Grass bag is clogged.	Empty the grass bag.
	Cutting height is not right.	Correct the cutting height.
	The lawn/grass is wet.	Allow the lawn to dry.
	Discharge channel/housing is blocked.	Clean the discharge channel/ housing.
	Underside of the mower deck is clogged.	Clean the underside of the mower deck.

EXPLODED VIEW



EXPLODED VIEW - ENGINE



PARTS LIST

No.	PART CODE	DESCRIPTION	Qty
01	1052270000	Soft casing pipe	01
02	1254079000	Self propel control lever	01
03	1252788000	Blade control lever	01
04	1254078000	Upper handle	01
05	1053344000	Speed control knob	01
06	2600147000	Acorn nut M6	01
07	1053791000	Speed control box - right	01
08	1001956000	Speed control lever	01
09	1053790000	Speed control box - left	01
10	1001994000	Speed control cable	01
11	1001992000	Control cable	01
12	1001993000	Self-propelled cable	01
13	2601142000	Bolt M6X62	01
14	2600225000	Hexagon socket cylindrical head screw M6X60	02
15	1055298000	HH electric start switch - R	01
16	1054166000	Electrical start switch box decorative plate	01
17	1003605000	Battery pin assembly	01
18	1053339000	Electric start button	01
19	2400926000	Push button switch	01
20	1050218000	Line pressing card	01
21	1003609000	Electric start line	01
22	2601119000	Self tapping screw plain washer combination st2.9x13	02
23	1055297000	HH electric start switch - L	01
24	2600534000	Cross recessed pan head self-tapping screw ST4.2X18	04
25	2600140000	Hexagon lock nut M6 with non-metallic insert	02
26	1250470000	Rope guider	01
27	2600172000	Self locking nut M6	01
28	1051123000	Lower handle plug	02
29	1003077000	Lower handle	02
30	1003608000	RATO 200-2 engine	01
31	1054771000	Cable clip	02
32	2600709000	Split damping ring 6	02
33	1350406000	Right spring of rearflap	01

No.	PART CODE	DESCRIPTION	Qty
34	1252764000	Rear flap shaft	01
35	1050647000	Rear flap	01
36	1350405000	Left spring of rear flap	01
37	2600721000	Screw and plain washer combination ST4.8X16 C Z S2 N	08
38	2600426000	Washer 6	02
39	1052267000	Fender	01
40	1002368000	Grass bag	01
41	1251934000	Grass bag frame	01
42	2600111000	Hexagon flange bolts, heavy series M8X16	06
43	1250861000	Arc head bolt	04
44	1254069000	Left handle bracket	01
45	1054854000	Knob	04
46	2600127000	Hexagon nut, grade c, M8	04
47	2600141000	Prevailing torque type hexagon nuts M8	10
48	1051305000	53cm mulch plug	01
49	1051303000	53cm rear housing	01
50	2600676000	Deg flush head break mandrel blind rivets 4X16	02
51	2601285000	Screw ST4.8X16 (type F)	03
52	1003596000	Deck	01
53	1051306000	Protective sleeve	01
54	1003599000	Right handle base	01
55	1350101000	Side discharge torsion spring	01
56	1050776000	Spring cap	01
57	2600099000	Bolt M6X10	02
58	1250515000	Side discharge shaft	01
59	1250514000	Side discharge bracket	01
60	1050774000	Side discharge cover	01
61	1050775000	Side discharge chute	01
62	2600427000	Plain washer 8	05
63	1250310000	Ball bearing	08
64	1055295000	300mm Wheel cap	02
65	1051267000	300mm Wheel	02
66	1251016000	Driven gear	02
67	2600458000	Wave spring washers	04

No.	PART CODE	DESCRIPTION	Qty
68	1051268000	Dust proof cover	02
69	1051291000	Height-adjusting handle	01
70	1002637000	Height-adjusting lever	01
71	2600647000	Spring pin 4X12	02
72	1350089000	Height-adjusting spring	01
73	2600711000	Split damping ring 8	01
74	1003598000	Front bumper handle assembly	01
75	2600113000	Hexagon flange bolts, heavy series M8X25	03
76	0450226000	Connector	01
77	2700137000	O-type rubber seal ring	01
78	1052742000	Cleaning nipple	01
79	2600309000	Cross grooved disc head screw M5X12	05
80	2600139000	M5 self-locking screw	01
81	2600086000	Hexagon head bolt M8X25	01
82	2600325000	Cross recessed head screw M6X12	01
83	1001953000	Gear box bracket	01
84	2600148000	Acorn nut m8	01
85	1003601000	Rear shaft assembly	01
86	1251052000	R-axle clamp	02
87	2600210000	Hexagon socket head screw M6X12	10
88	1350448000	Connecting rod spring	01
89	2600140000	Prevailing torque type hexagon nuts M6	02
90	1002969000	Connecting rod	01
91	1253600000	Adjust the gasket	02
92	2600687000	External circlips 12	04
93	1000873000	Right drive gear	01
94	1253599000	Bearing	02
95	1251065000	Washer	01
96	1251002000	Cylindrical pin	02
97	1001794000	GT adjustable speed gearbox	01
98	1000872000	Left drive gear	01
99	1050643000	200mm Wheel	02
100	1055294000	200mm Wheel cap	02
101	1003600000	Front shaft	01

No.	PART CODE	DESCRIPTION	Qty
102	1052672000	Plastic	02
103	1400205000	Belt	01
104	1254077000	Belt pulley washer	01
105	1252641000	Engine pulley	01
106	1250862000	Screw and plain washer combination ST4.8X13 C	02
107	1051304000	53cm belt cover	01
108	1250468000	Square key	01
109	2600100000	Hexagon flange bolts, heavy series M6X12	01
110	1001952000	Blade adapter	01
111	1251055000	Blade	01
112	1250061000	Heavy cone washer	01
113	1251056000	Blade tension bolt 3/8-24UNF	01
114	0440096000	Oil can	01
115	1003734000	Charging block assembly	01
116	1003733000	Lithium battery	01
A01	1003602000	Upper handle assembly	
A02	1003108000	Knob assembly	

PARTS LIST - ENGINE

No.	PART CODE	DESCRIPTION	Qty
01	90007-0612-A1	Bolt	07
02	12411-Z3F0110-0100	Cylinder head cover	01
03	14318-Z3F0110-00A0	Valve rocker shaft	01
04	14310-Z3F0110-00A0	Valve rocker subassembly	02
05	14318-Z950110-00A0	Valve rocker shaft	01
06	12109-Z810110-00A0	Valve lock clamp	04
07	12112-Z810210-00A0	Valve spring seat	02
08	12103-Z010110-00A0	Valve spring	02
09	12101-Z810210-00A0	Seal guide	01
10	90102-0512-A1A0	Bolt	01
11	12003-Z3F0110-0100	Cylinder head bolt	04
12	30010-Z050110-00A0	Spark plug	01
13	12140-Z3F0110-00A0	Cylinder head subassembly	01
14	90204-Z020310-00A0	Stud	02
15	12111-Z3F0110-00A0	Intake valve	01
16	12111-Z950110-00A0	Intake valve	01
17	12131-Z3F0110-00A0	Cylinder head gasket	01
18	14071-Z3F0110-00A0	Valve lifter	02
19	14081-Z2R0110-00A0	Valve tappet	02
20	14200-Z3F0210-00A0	Camshaft assembly	01
21	13200-Z3F0110-00A0	Piston ring assembly	01
22	13111-Z3F0110-00A0	Piston	01
23	13122-Z350110-00A0	Piston pin clip	02
24	13121-Z810110-00A0	Piston pin	01
25	13010-Z3F0110-00A0	Connecting rod	01
26	13300-Z3F0710-00A0	Crankshaft assembly	01
27	14014-Z2R0110-00A0	Timing drive gear	01
28	90408-Z030210-0000	Flat washer	01
29	11411-Z3F0210-00A0	Crankcase cover	01
30	90007-0622-A1	Bolt	08
31	90502-0810-00A0	Pin	02
32	90682-Z030120-00A0	Oil seal	01
33	16400-Z3F0110-00A0	Governor gear assembly	01

No.	PART CODE	DESCRIPTION	Qty
34	16013-Z030120-00A0	Governor spindle compression plate	01
35	11007-Z010110-0000	Drain plug bolt	01
36	90408-Z010110-0000	Flat washer	01
37	90548-0205-CLA0	Deep groove ball bearing	01
38	11310-Z3F0111-00A1	Crankcase subassembly	01
39	90103-0410-51	Bolt	01
40	11337-Z2P0110-00A0	Limit plate	01
41	11321-Z3F0110-00A0	Breath piece	01
42	11333-Z3F0110-00A0	Breath groove cover plate	01
43	90408-Z010210-0000	Flat washer	01
44	90682-Z030210-00A0	Oil seal	01
45	16061-Z3F0110-00A0	Governor arm	01
46	16070-Z3F0110-0000	Governor support subassembly	01
47	16072-Z010110-0000	Governor support bolt	01
48	90305-0600-31	Nut	06
49	90501-Z010110-00A0	Pin	01
50	16063-Z3F0510-00A0	Governor spring	01
51	16062-Z3F0210-0000	Governeor rod	01
52	16561-Z3F0210-00A0	Throttle control bottom plate subassembly	01
53	45200-Z3F0110-00A0	Brake assembly	01
54	90005-0612-01	Bolt	02
55	35191-Z3F0110-0000	Wire harness for microswitch	01
56	90682-Z020410-00A0	Oil seal	01
57	30300-Z3F0210-0000	Starting motor assembly	01
58	90007-0630-A1	Bolt	04
59	15010-Z3F0310-Q200	Oil dipstick subassembly	01
60	30400-Z3F0310-0000	Ignition coil	01
61	90683-Z870310-0000	Bush	02
62	13510-Z0K0110-00A0	Flywheel subassembly	01
63	13501-Z010110-0000	Flywheel nut	01
64	28001-Z180210-00A0	Stud	01
65	28001-Z3F0210-0100	Stud	02
66	28200-Z3F0110-Q2B0	Recoil starter assembly	01
67	80001HZ3F0310-Q200	Engine housing	01

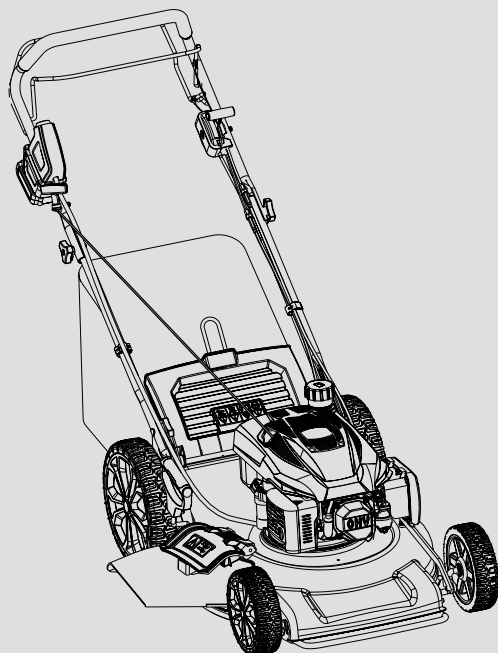
No.	PART CODE	DESCRIPTION	Qty
68	90254-0520-51	Screw and flat washer	04
69	16004-Z3F0110-00A0	Insulator plate gasket	01
70	16003-Z3F0110-00A0	Carburetor insulator plate	02
71	16001-Z3F0210-00A0	Carburetor gasket	03
72	16100-Z3F0310-00M0	Carburetor assembly	01
73	17001-Z2P0110-00A0	Air cleaner gasket	01
74	17100-Z3F0210-0000	Air cleaner	01
75	17004-Z3F0110-0000	Breather tube	01
76	90204-Z3F0110-0100	Stud	02
77	18001-Z3F0110-00A0	Exhaust outlet gasket	01
78	16260-Z3F0110-00A0	Temperature control mechanical	01
79	16123-Z3F0310-00A0	Choke rod	01
80	18001-Z350110-00A0	Exhaust outlet gasket	01
81	18100-Z3F0210-00A0	Muffler assembly	01
82	18250-Z020110-0000	Spark collector	01
83	18130-Z3F0310-QB00	Muffler outer cover	01
84	90310-0600-31	Nut	02
85	16730-Z620210-LKD0	Fuel tank cover	01
86	16744-Z620120-0000	Fuel tank cover chain proof off	01
87	16620-Z3F0111-00M2	Fuel tank	01
88	16652-Z030110-00A0	Fuel strainer	01
89	90685-Z030410-0000	Clamp	01
90	90686-Z3F0310-00M0	Fuel tube	01
91	90685-Z030220-0000	Clamp	01
92	90684-Z0A0110-0000	Clip	02
93	90107-3595-01A0	Screw	01

WARRANTY

BENCHMARK 201CC 3 IN 1 LAWN MOWER WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. Two years for battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs and/or batteries. This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply. For use at the consumer level. The warranty is not for industrial or commercial applications.

201CC 3 IN 1 LAWN MOWER



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