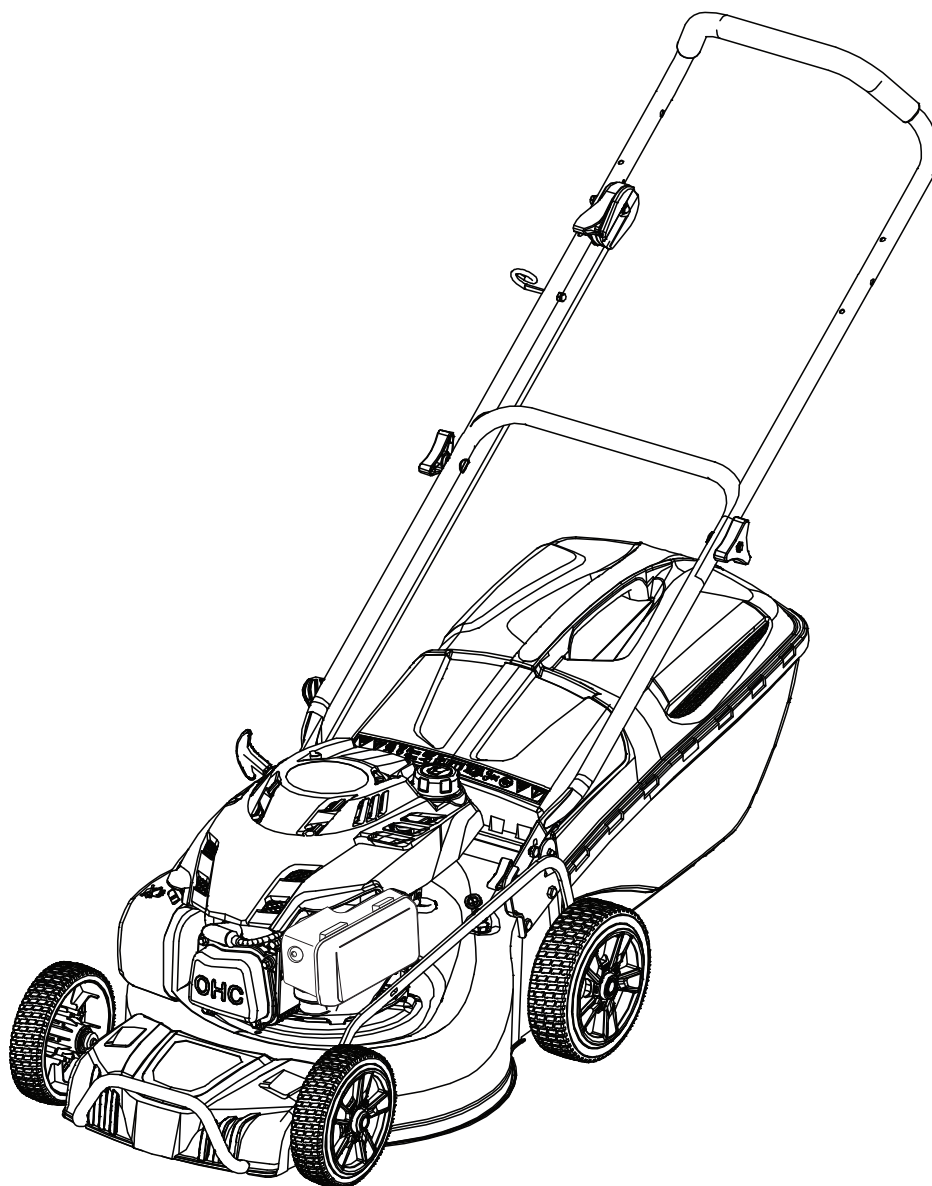




# RLM4619SME

## PETROL LAWN MOWER

### Original Instructions



**Important!** It is essential that you read the instructions in this manual before assembling, maintaining and operating this machine.

**NOTE:**  
Illustrations are for representation  
and reference purposes only and  
may vary from actual product  
and specification.

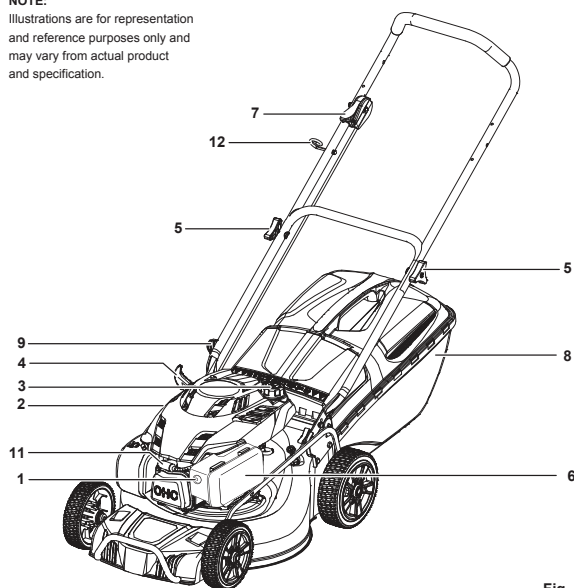


Fig. 1

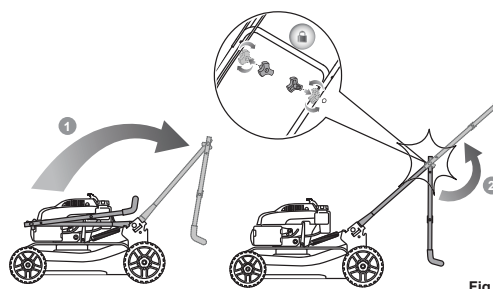


Fig. 2

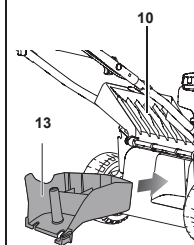


Fig. 3

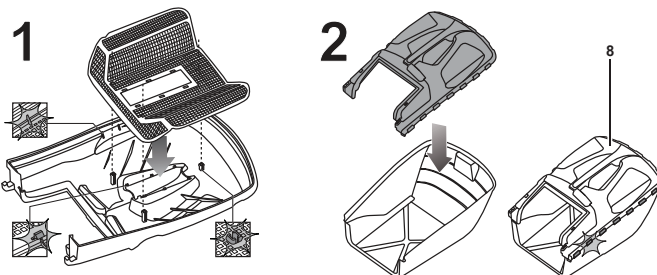


Fig. 4

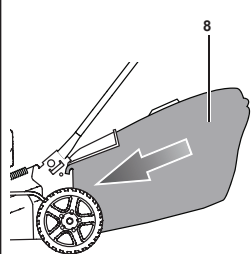


Fig. 5

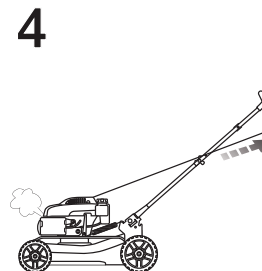
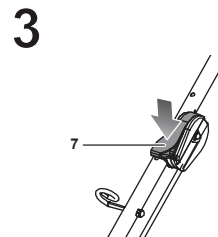
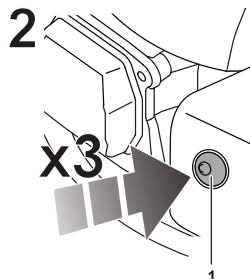
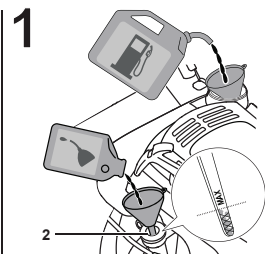


Fig. 6

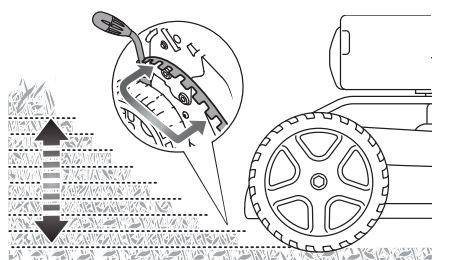


Fig. 7

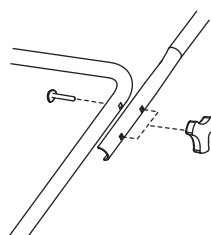


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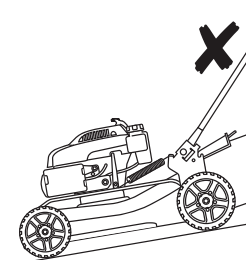
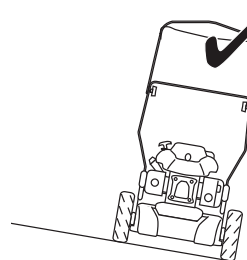


Fig. 9

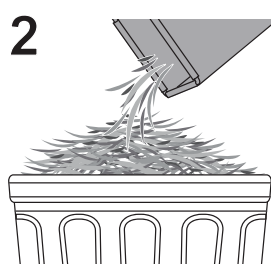
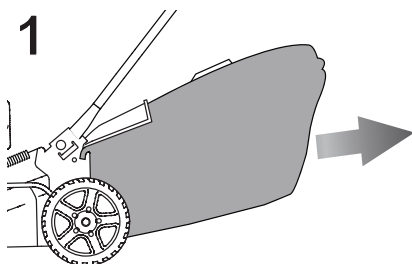


Fig. 10

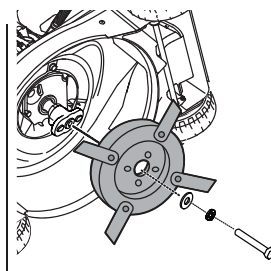


Fig. 11

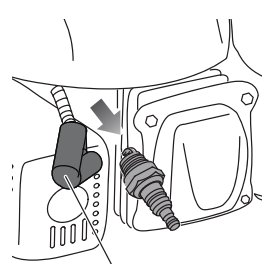


Fig. 12

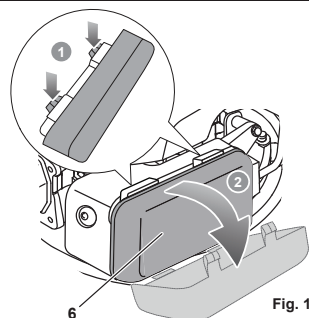


Fig. 13

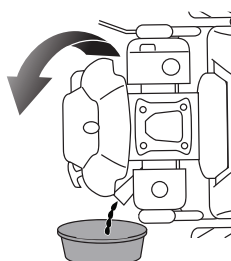


Fig. 14

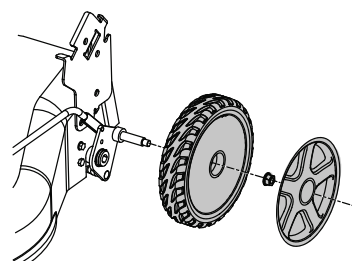


Fig. 15

## Thank you for buying a Ryobi lawn mower.

Your new lawn mower has been engineered and manufacturer to Ryobi's high standard for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

### WARNING

Do not attempt to operate this mower until you have read thoroughly and understood completely all instructions, safety rules, etc. contained in this manual. Failure to comply may result in accidents involving fire or serious personal injury. Save operator's manual and review frequently for continuing safe operation and instructing others who may use this tool.

### GENERAL SAFETY RULES

- The lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe all safety instructions could result in serious injury or death.
- Never allow children or people unfamiliar with these instructions to operate the mower. Local regulations can restrict the age of the operator.
- Keep the area clear of all bystanders, children, and pets while mowing. Stop machine if anyone enters the area.
- 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 under the watchful care of a responsible adult other than the operator.
  - Be alert and turn mower off if a child enters the area.
  - Never allow children to operate the machine.
  - Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
- Do not wear loose clothing or jewelry. They can be caught in moving parts.
- Always wear safety glasses with side shields. Everyday glasses have only impact resistant lenses. They are NOT safety glasses. Following this rule will reduce the risk of eye injury. Use face mask if operation is dusty.
- Wear safety glasses or goggles when operating this product.
- Use the right appliance. Do not use the lawn mower for any job except that for which it is intended.
- Clear the work area before each use. Remove all objects such as rocks, sticks, wire, bones, toys, or other objects which can be thrown by the blade. Stay behind the handle when the engine is running.
- Replace any faulty mufflers.
- Before each use, visually inspect the mower to ensure blades, blade bolts, and cutter assembly are not worn or damaged.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Operate the lawn mower only in daylight or good artificial light.
- Stay alert, watch what you are doing, and use common sense when operating the lawn mower. Do not operate the mower while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the mower may result in serious personal injury.
- Do not use the lawn mower in damp or wet conditions or operate in the rain.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- Do not mow on wet grass or excessively steep slopes. Poor footing could cause a slip and fall accident. Walk, never run.
- Do not mow near drop-offs, ditches, or embankments.
- Do not pull the mower backward unless absolutely necessary. If you must back the mower away from a wall or obstruction, first look down and behind to avoid tripping.
- Stop the engine if the mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the mower to and from the area to be mowed.
- Do not operate the mower without the entire grass catcher, or other safety protective devices in place and working.
- Do not change the engine governor settings or overspeed the engine.
- Start the engine carefully according to instructions and with feet well away from the blade.
- Do not tilt the mower when starting the engine.
- Keep hands and feet away from cutting area. Keep clear of the discharge opening at all times.
- Never pick up or carry a mower while the engine is running.
- Do not leave the mower unattended while running.

- Avoid holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could cause a slip and fall accident.
- Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders, and the like. Also, avoid discharging material against a wall or obstruction, which may cause the material to ricochet back toward the operator.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view.
- Objects struck by the mower blade can cause severe injuries to persons. The lawn should always be carefully examined and cleared of all objects prior to each mowing.
- Stop the engine, and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the discharge chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Stop the engine and wait until the blade comes to a complete stop and disconnect the spark wire before cleaning the lawn mower, removing the grass catcher, or unclogging the discharge guard.
- If the mower strikes a foreign object, follow these steps:
  - Stop the mower and disconnect the spark plug wire.
  - Thoroughly inspect the mower and grass catcher for any damage.
  - Repair any damage before restarting and continuing to operate the mower.
- If the mower should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble. Check the condition of the blade, as an unevenly worn or damaged blade can cause abnormal vibration. Unevenly worn or damaged blades should be replaced immediately to avoid the risk of serious injury.

### MAINTENANCE

- Allow engine to cool before storing in any enclosure.
- To reduce the risk of fire, keep the engine, muffler, and petrol storage area free of grass, leaves, and excessive grease.
- Check the grass catcher frequently for wear or deterioration.
- Keep machine in good working condition. Keep blades sharp and guards in place and in working order.
- Check all nuts, bolts, and screws at frequent intervals for proper tightness to be sure the equipment is in safe working condition.

- When not in use, mower should be stored in a well-ventilated, dry, locked up place out of the reach of children.
- Follow manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- If the fuel tank has to be drained, this should be done outdoors.
- Disconnect the spark plug wire before making any adjustments, changing accessories, transporting, or storing the lawn mower. Such preventive safety measures reduce the risk of starting the product accidentally.

### SERVICE

- Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in injury to the user or damage to the product.
- Use only identical replacement parts when servicing the product. Use of unauthorized parts may create a risk of serious injury to the user, or damage to the product.
- For service we suggest you return the product to your nearest service centre for repair.

**Save these instructions. Refer to them frequently and use them to instruct others who may use this product. If you loan someone this tool, loan them these instructions also.**







# English

## SYMBOLS




**Important:** Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOLS	NAME	EXPLANATION
	Safety Alert	Precautions that involve your safety.
	Read The Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles or safety glasses with side shields and, as necessary, a full face shield when operating this product.
	Keep Bystanders Away	Keep all bystanders at least 15 m away.
	Belt Entanglement Hazard	Keep all body parts and clothing clear of any belts or other moving parts.
	Moving Parts	To avoid injury, stay away from moving parts at all times.
	Keep Hands and Feet Away	Danger. Keep hands and feet away.
	Ricochet	Thrown objects can ricochet and result in personal injury or property damage.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.
	No Smoking	Do not smoke and stay away from open flames and sparks when filling fuel tank or when handling fuel.
	Petrol	Use unleaded gasoline intended for motor vehicle use with an octane rating of 91 ([R+M]/2) or higher.
	Oil	Use SAE 30 or 10W30 API-SJ weight oil.
		Throttle lever to maximum
		Throttle lever to minimum
		Loosen fuel cap slowly to release pressure and to keep petrol from escaping around the cap.
		Carefully pour petrol into the tank.
		Push the primer bulb 3 times.

## English

		Set the throttle lever to max down against the handle.
		Pull the starter cord until the engine runs.
		The rear grass catcher
		Mulching plug option
		The guaranteed sound power level is 98 dB. The guaranteed sound pressure level is 86 dB.
		C-Tick compliance. Product meets applicable regulatory requirements.

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	<b>DANGER:</b>	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	<b>WARNING:</b>	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	<b>CAUTION:</b>	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	<b>CAUTION:</b>	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.



**SPECIFICATIONS**

Engine	190cc OHV
No-load speed	2,700/min. (RPM)
Cutting path	460 mm
Height adjustments	10 positions, 10 mm–75 mm
Wheel size	7" front, 8" rear
Grass bag capacity	50 litres
Sound power level	LwA 98.7 dB, K=3
Sound pressure level	LpA 86.6 dB, K=3
Vibration: Left handle	9.721 m/s <sup>2</sup> , K=1.5
Vibration: Right handle	6.744 m/s <sup>2</sup> , K=1.5
Guaranteed value	98 dB
Net weight	35.25 kg
Gross weight	39.4 kg
Oil capacity	0.6 L

**DESCRIPTION**

See figure 1.

1. Primer bulb
2. Oil cap/dipstick
3. Fuel cap
4. Starter grip
5. Handle knob
6. Air filter element
7. Throttle
8. Grass catcher
9. Height adjustment lever
10. Rear discharge door
11. Spark plug boot
12. Rope guide knob
13. Mulching plug

**ASSEMBLY****⚠ WARNING**

If any parts are damaged or missing do not operate this product until the parts are replaced. Operation of this product with damaged or missing parts could result in serious personal injury.

**⚠ WARNING**

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

**⚠ WARNING**

To prevent accidental starting that could cause serious personal injury, always disconnect the engine spark plug wire from the spark plug when assembling parts.

**⚠ WARNING**

Never attach or adjust any accessory while the mower is running. Failure to stop the engine may cause serious personal injury.

**⚠ WARNING**

Never operate the mower without properly working safety devices in place and working. Never operate the mower with damaged safety devices. Operation of the mower without properly working safety devices can result in serious personal injury.

See figure 2 - 5.

- Place handles in correct operating position and tighten handle knobs to secure.
- Install grass catcher or mulching plug.

**INSTALLING THE MULCHING PLUG (FOR MULCHING OPERATION)**

See figure 3.

**NOTE:** When using the mulching plug, do not install the grass catcher.

- Lift and hold up the rear discharge door.
- Grasp the mulching plug by its handle and insert it at a slight angle, as shown.
- Push the mulching plug securely into place.
- Lower the rear discharge door.

**REMOVING THE MULCHING PLUG**

**NOTE:** When using the mulching plug, remove the grass catcher.

- Lift and hold up the rear discharge door.
- Grasp the mulching plug by its handle and remove it from the product.

**ASSEMBLING THE GRASS CATCHER**

See figure 4.

- Snap the filter in place on the inner side of the top cover.

- Snap together the top and bottom parts of the grass catcher.

## INSTALLING THE GRASS CATCHER

**NOTE:** When using the grass catcher, do not install the mulching plug.

- Lift the rear discharge door.
- Lift the grass catcher by its handle and place under the rear door, so that the hooks on the grass catcher frame are seated into the slots in the handle bracket.
- Release the rear door. When installed correctly, the hooks on the grass catcher will rest securely in the slots on the handle brackets.

## OPERATION

### ⚠ WARNING

Before beginning operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.



Read the operation manual and follow all warnings and safety instructions.



Wear eye protection.



Keep all bystanders, especially children and pets, at least 15 m from the operating area.

## FUELLING AND REFUELLING

### ⚠ WARNING

Always handle petrol with care; it is highly flammable.

- Store petrol in containers specifically designed for this purpose.
- Always refuel outdoors where there are no sparks and flames. Do not inhale petrol vapors. Do not smoke while refuelling or handling fuel.
- Do not let petrol or oil come in contact with your skin.
- Keep petrol and oil away from the eyes. If petrol or oil comes in contact with the eyes, wash them immediately with clean water. If irritation is still present, see a doctor immediately.
- Clean up spilled petrol immediately.

## FILLING THE TANK

See figure 6.

### ⚠ WARNING

Always shut off engine before fuelling. Never remove the cap of the fuel tank or add petrol to a machine with a running or hot engine. Move at least 9 m from refuelling site before starting engine. Do not smoke! Failure to follow this warning could result in serious personal injury.

### ⚠ WARNING

After fuelling, never tilt the mower more than 25 degree for this could result in fuel leakage and risk of fire, and etc.

**NOTE:** Always use petrol that is unleaded 91 or higher.

- Clean surface around fuel cap to prevent contamination.
- Loosen fuel cap slowly to release pressure and to keep petrol from escaping around the cap. Rest the cap on a clean surface.
- Carefully pour petrol into the tank. Avoid spillage.
- Clean and inspect the gasket, then replace all fuel and container caps securely.
- Wipe up any petrol spillage. Move 9 m away from refuelling site before starting engine.

**NOTE:** It is normal for smoke to be emitted from a new engine during first use.

## ADDING/CHECKING ENGINE OIL

See figure 6.

Engine oil has a major influence on engine performance and service life. For general, all-temperature use, SAE 10W-30 is recommended. Always use a 4-cycle motor oil that meets or exceeds the requirements for API service classification SJ.

**NOTE:** Non-detergent or 2-cycle engine oils will damage the engine and should not be used.

### To add engine oil:

- Be sure mower is level and area around oil cap/dipstick is clean.
- Remove the cap and seal from oil bottle.
- Unscrew the oil cap/dipstick and remove.
- Slowly add oil. Fill to the "Full" line on dipstick. Do not overfill.

**NOTE:** When checking the oil level, seat the dipstick in the oil fill hole but do not screw in.

- Reinstall the oil cap/dipstick and secure.

### To check engine oil:

- Be sure mower is level and area round oil cap/dipstick is clean.
- Remove the oil cap/dipstick. Wipe clean and reseal in oil fill hole but do not screw in.
- Remove the oil cap/dipstick again and check oil level.



Add oil as needed.

## STARTING/STOPPING THE MOWER

See figure 6.

### WARNING

Never start or run the engine inside a closed or poorly ventilated area; breathing exhaust fumes can kill.

#### Starting the engine

- Firmly push the primer bulb 3 times.

**NOTE:** This step is not usually necessary when starting an engine that has already run for a few minutes.

- Set the throttle lever to max down against the handle.
- Pull the starter cord until the engine runs. Release the starter cord slowly so the rope does not snap back.

**NOTE:** It may be necessary to repeat priming steps in cooler weather. In warmer weather, overpriming may cause flooding and engine will not start. If you do flood the engine, wait a few minutes before attempting to start and DO NOT repeat priming steps.

#### Stopping the engine

Return the throttle lever to the stop position.

## SETTING BLADE HEIGHT

See figure 7.

When shipped, the wheels on the mower are set to a low-cutting position. Before using the mower for the first time, adjust the cutting position to the height best suited for your lawn. The average lawn should be between 3 and 6 cm, depending on the season.

- To raise the blade height, grasp the height adjustment lever and move it toward the front of the mower.
- To lower the blade height, grasp the height adjustment lever and move it toward the back of the mower.

## SETTING HANDLE HEIGHT

See figure 8.

The height of the handle can be easily adjusted for operator preference.

- Remove the handle knob.
- Slide out the handle bolt and adjust the height to the other opening.
- Reinstall the handle bolt and knob. Tighten the knob securely.
- Repeat on the other side of the handle.

## MOWING TIPS

- Make sure the lawn is clear of stones, sticks, wires, and other objects that could damage the mower blades or

engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

- For best performance, always cut off one-third or less of the total height of the grass.
- When cutting long grass, reduce walking speed to allow for more effective cutting and a proper discharge of the clippings.
- Do not cut wet grass. It will stick to the underside of the deck and prevent proper catching of the grass clippings.
- New or thick grass may require a narrower cut path.
- Clean the underside of the mower deck after each use to remove grass clippings, leaves, dirt, and any other accumulated debris.

## SLOPE OPERATION

See figure 9.

- Slopes are a major factor related to slip and fall accidents that can result in severe injury. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, do not attempt to mow slopes greater than 15 degrees.
- Mow across the face of slopes, not up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, rocks, hidden objects, or bumps which can cause you to slip or trip. Tall grass can hide obstacles. Remove all objects such as rocks, tree limbs, etc., which could be tripped over or thrown by the blade.
- Always be sure of your footing. A slip and fall can cause serious personal injury.
- Do not mow near drop-offs, ditches, or embankments; you could lose your footing or balance.

## EMPTYING THE GRASS CATCHER

See figure 10.

- Stop the mower and wait for the blade to come to a complete stop.
- Lift the rear discharge door.
- Grasp grass catcher by its handle and lift to remove from mower.
- Empty grass clippings.
- Lift the rear discharge door and reinstall the grass catcher.

## MAINTENANCE

### WARNING

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

### WARNING

Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.
- Periodically check all nuts and bolts for proper tightness to ensure safe operation of the mower.
- Remove any buildup of grass and leaves on or around the engine and engine cover. Wipe the mower clean with a dry cloth occasionally. Do not use water.

## LUBRICATION

All of the bearings (but not including the engine bearings) in this product are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further bearing lubrication is required.

### WARNING

Always protect hands by wearing heavy gloves and/or wrapping the cutting edges of the blade with rags and other material when performing blade maintenance. Improper handling of blade could result in serious personal injury.

### WARNING

Before performing any maintenance, stop the mower, allow the blade to come to a complete stop, and disconnect the spark plug wire from the spark plug. Failure to follow this warning could result in serious personal injury.

## CLEANING THE UNDERSIDE OF THE MOWER DECK

- Raise the mower to full height.
- Connect a female water hose connector (not supplied) to the male hose connector on the mower deck.
- Turn on the water supply.
- Start the mower and run at full revolutions.
- Run the engine in place for approximately 30 seconds.
- Shut off the engine.

- Turn off the water supply.
- Inspect the underside of the mower deck for cleanliness, and repeat the cleaning procedure if desired.

## REPLACING THE CUTTING BLADE

See figure 11.

For best results, the mower blade must be kept sharp. Replace a bent or damaged blade immediately.

### WARNING

Only use replacement blades approved by the manufacturer of your mower. Using a blade not approved by the manufacturer of your mower is hazardous and could result in serious injury, damage your mower, and void your warranty.

### WARNING

Drain the fuel first before tilting the mower to replace the blade.

- Stop the engine and disconnect the spark plug wire. Allow the blade to come to a complete stop.
- Turn the mower on its side, carburetor facing up.

### WARNING

Make sure the carburetor is facing up.

- Wedge a block of wood between the disc and mower deck to prevent the disc from turning.
- Using a 16 mm AF wrench or socket (not provided), loosen the disc bolt by turning the bolt in a counterclockwise direction as viewed from the bottom of the mower.
- Remove the disc bolt, lock washer, flat washer, and disc.
- Place the new blade disk on the disc adapter, with the curved blade ends pointing up towards the mower deck and not toward the ground.
- If any of the individual blades are dull, damaged, or need replacing, they should be replaced using only original equipment parts. If any single blade needs to be replaced then the complete set of four (4) need to be replaced as a set. Failure to replace the blades as a set may result in an out of balance situation resulting in damage to the engine.
- Assemble the disc flat washer, lock washer, and blade bolt on the shaft. Finger tighten the bolt by turning in a clockwise direction as viewed from the bottom of the mower.

**NOTE:** Make certain all parts are replaced in the exact order in which they were removed.

- Torque the disc bolt using a torque wrench (not provided) to ensure the bolt is properly tightened.

The recommended torque for the disc bolt is 48–55 Nm (35–40 ft.lb.).

**NOTE:** It is not recommended to perform blade sharpening by user.

## REPLACING WHEELS

See figure 15.

- Stop the engine and disconnect the spark plug wire. Allow the blade to come to a complete stop.
- Remove spat (hub cap).
- Remove the nut from the wheel axle, then remove the wheel.
- Assemble with new wheel and reinstall nut to secure.
- Assemble spat (hub cap).

## CLEANING AIR FILTER

See figure 13.

The mower has a paper air filter, and it cannot be washed.

- Remove the air filter element cover by pushing in on the latch with your thumb while gently pulling on the cover.
- Remove the paper air filter element for inspection.
- After removing the air filter element, most debris can be removed by tapping it gently against a hard surface, or brushing the surface lightly.

**NOTE:** A dirty air filter will restrict air flow and result in damage to the engine. Air filter life is dependent upon the environment in which the mower is used, and it should be inspected regularly and replaced when dirty.

- Reinstall the new air filter element into the air filter base.
- Replace and secure the air filter element cover.

**NOTE:** The filter element should be replaced annually for best performance or sooner, if necessary.

## FUEL CAP

### WARNING

A leaking fuel cap is a fire hazard and must be replaced immediately.

The fuel cap contains a non-serviceable filter and a check valve. A clogged fuel cap will cause poor engine performance. If performance improves when the fuel cap is loosened, check valve may be faulty or clogged. Replace the fuel cap if required.

## CHANGING ENGINE OIL

See figure 14.

Engine oil should be changed after every 25 hours of use. Change the oil while the engine oil is still warm, but not hot. This allows the oil to drain quickly and completely.

- Remove the oil fill cap/dipstick.
- Tip mower onto its side and allow oil to drain from the oil fill hole into an approved container.
- Place mower upright and refill with oil following the instructions in the *Adding/Checking Oil* section.

**NOTE:** Used oil should be disposed of at an approved disposal site. See your local oil retailer for more information.

## SPARK PLUG MAINTENANCE

See figure 12.

The spark plug must be properly gapped and free of deposits in order to ensure proper engine operation. To check:

- Remove the spark plug boot.
- Clean any dirt from around base of spark plug.
- Remove spark plug using a 13/16 in. spark plug socket (not provided).
- Inspect spark plug for damage, and clean with a wire brush before reinstalling. If insulator is cracked or chipped, spark plug should be replaced.

**NOTE:** The recommended spark plug models is NGK BPR6HS.

- Measure plug gap. The correct gap is 0.028 – 0.031 in. To widen gap, if necessary, carefully bend the ground (top) electrode. To lessen gap, gently tap ground electrode on a hard surface.
- Seat spark plug in position; thread in by hand to prevent cross-threading.
- Tighten with wrench to compress washer. If spark plug is new, use 1/2 turn to compress washer appropriate amount. If reusing old spark plug, use 1/8 to 1/4 turn for proper washer compression.

**NOTE:** An improperly tightened spark plug will become very hot and could damage the engine.

- Reinstall spark plug boot.

## STORING THE MOWER

- The product is fitted with a spark arrestor, please note it is suggested that the spark arrestor should only be cleaned by a recognized service agent.

## STORING THE MOWER

**When storing the mower for 30 days or more:**

- If using fuel stabilizer, follow stabilizer manufacturer's directions to add stabilizer to petrol in fuel tank. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor.

## ⚠ WARNING

Do not store the lawn mower with petrol in the tank inside a building where fumes may reach an open flame or spark.

- If not using fuel stabilizer, allow the engine to run until the mower is completely out of petrol.
- Once the engine has stopped, allow the blade to come to a complete stop and disconnect the spark plug wire.
- After cleaning the deck, restart the mower. Keep the engine and blade running for a minimum of two minutes, allowing underside of the cutting deck to thoroughly dry.
- Check all nuts, bolts, knobs, screws, fasteners, etc., for tightness.
- Inspect moving parts for damage, breakage, and wear. Have repairs made on any damaged or missing parts.
- Store the mower in a well-ventilated area that is clean,

dry, and out of the reach of children.

- Do not store near corrosive materials such as fertilizer or rock salt.

### To lower the handle before storing

- Loosen the starter rope guide knob. Remove starter rope from guide and allow to retract into engine.
- Fully loosen the handle knobs on the sides of the handle and fold the upper handle down.
- Remove the handle knobs and bolts from each side of the lower handle at the handle bracket, (mounted on the mower deck).
- Push inward on each side of the lower handle, and lift the sides of the lower handle past the edges of the handle mounting brackets.
- Fold the lower handle forward, making sure not to bend or kink the control cables.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Handle not in correct position.	Handle positioned incorrectly.  Handle knobs not tightened.	Check to be sure that lower part of handle is pushed fully back and snapped into proper position.  Tighten handle knobs.
Mower not starting.	No spark.  No petrol.  Engine is flooded.  Old fuel.	Use spark tester to check for proper spark plug operation.  Fill mower with petrol. If mower still does not start, contact a servicing dealer.  Wait 15 minutes, then try starting mower again. Do not prime before attempting to start.  Only use fresh fuel. Fuel over 30 days old may prevent the unit from starting.
Mower hard to push.	High grass, rear of mower housing and blade dragging in heavy grass, or cutting height too low.	Raise cutting height.
Mower vibrating at higher speed.	Blade is unbalanced. Bent motor shaft.	Replace blade.  Stop the engine, disconnect the spark plug wire from the spark plug, and inspect for damage. Have repaired by an authorized service center before restarting.
Mower not mulching properly	Wet grass clippings sticking to the underside of the deck.	Wait until the grass dries before mowing.
Mower not catching properly	Cutting height set too low.	Raise cutting height.

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