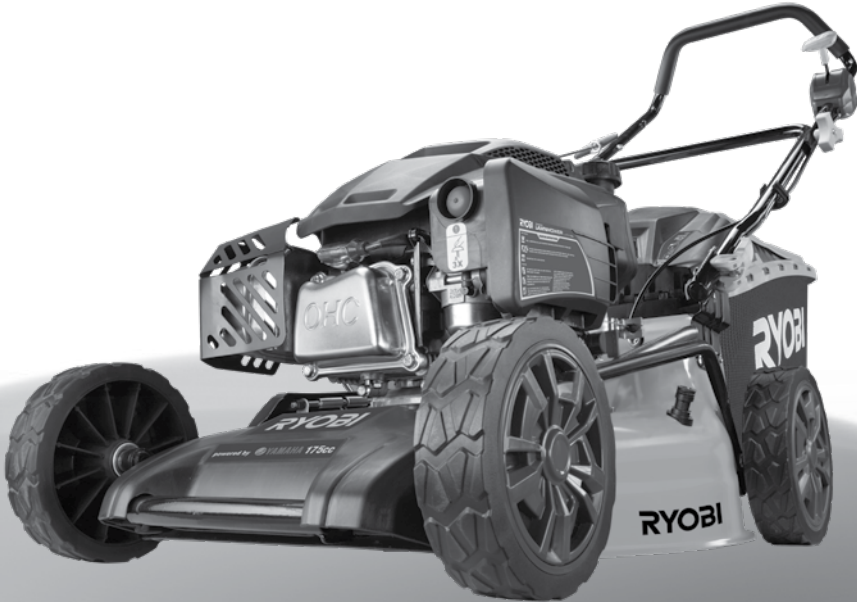




ORIGINAL INSTRUCTIONS  
**Petrol Lawn Mower**

RLM46175YB



## **Important!**

It is essential that you read the instructions in this manual before assembling, maintaining, and operating the product.

Subject to technical modifications.

Safety, performance, and dependability have been given top priority in the design of your petrol lawn mower.

## INTENDED USE

The petrol lawn mower is intended for outdoor use only.

The product is designed for domestic lawn mowing. The cutting blade should rotate approximately parallel to the ground over which it is being wheeled. All four wheels should touch the ground while mowing.

The product is a pedestrian-controlled, walk-behind mower designed to be pushed by hand.

The product should never be operated with the wheels off the ground. It should not be pulled or ridden on. It should not be used to cut anything other than domestic grass lawns.

Do not use the product for any other purpose.

## GENERAL SAFETY WARNINGS

### WARNING

When using the product, the safety rules must be followed. For your own safety and that of bystanders, please read these instructions before operating the product. Learn how to quickly stop the engine in case of any emergency. Please keep the instructions safe for later use.

### WARNING

To avoid serious personal injury, do not attempt to use the product until you read thoroughly and understand completely the operator's manual. If you do not understand the warnings and instructions in the operator's manual, do not use the product. Call an authorised service centre for assistance.

## PERSONAL SAFETY

- The product is capable of amputating hands and feet, and of throwing objects. Failure to observe all safety instructions could result in serious injury or death.
- Be familiar with the controls and the correct use of the product.
- Ensure before each use that all controls and safety devices function correctly. Do not use the product if any parts are damaged.
- Never allow children or people with reduced physical, sensory, or mental capabilities or persons not familiar with these instructions to operate, clean, or maintain the product. Local regulations may restrict the age of the operator. Children should be adequately supervised to ensure they do not play with the product.
- Stay alert, watch what you are doing, and use common

sense when operating the product. Do not operate the product while tired, ill, or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the product may result in serious personal injury.

- Wear heavy, long trousers, long sleeves, and sturdy anti-slip footwear. Do not wear short trousers, sandals, or go barefoot. Avoid wearing clothing that is loose-fitting or that has hanging cords or ties.
- Always wear safety glasses with side shields.
- Wear hearing protection and safety glasses at all times while operating the product. Use a face mask if the operation is dusty.
- The use of hearing protection reduces the ability to hear warnings (shouts or alarms). The operator must pay extra attention to what is going on in the work area.
- Operating similar tools nearby increases both the risk of hearing injury and the potential for other persons to enter your work area.
- Always be sure of your footing, especially on slopes. Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Use the product across the face of slopes, and never up and down. Exercise extreme caution when changing direction on slopes.
- Do not use the product near drop-offs, ditches, excessively steep slopes, or embankments. Poor footing could cause a slip-and-fall accident.
- Plan your mowing pattern to avoid discharge of material towards roads, public pavements, bystanders and the like. Avoid discharging material against a wall or obstruction, which may cause the material to ricochet towards the operator.

## WORK AREA SAFETY

- Never use product while people, especially children, or pets are within 15 m because of the danger of objects being thrown by contact with the blade.
- Objects struck by the lawn mower blade can cause severe injuries to persons. Thoroughly inspect the area where the product is to be used and remove all rocks, sticks, metal, wire, bones, toys, or other foreign objects. Remember, string or wire may entangle with the cutting means.
- Always use the product in the daylight or in good artificial light. The operator requires a clear view of the work area to identify potential hazards.
- Do not operate the product in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. The product creates sparks that may ignite the dust or fumes.
- Do not operate the product on wet grass or in the rain.
- Do not use the product when there is a risk of lightning.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

- Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the product 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 the product off if a child enters the area.
- Use extra care when approaching blind corners, shrubs, trees, or other objects including overhanging shrubs, which may block your view.
- Keep work area clean. Cluttered or dark areas invite accidents.

## LAWN MOWER SAFETY WARNINGS

- Before use, always visually inspect to ensure blades, blade bolts, and cutter assembly are not worn or damaged.
- Replace worn or damaged blades and bolts in sets to preserve balance. Damaged blades and worn bolts are major hazards.
- If the engine does not stop when the throttle lever is set in the "Stop" position, do not operate the product.
- Do not operate the product without the entire grass catcher or the guard of the self-closing discharge opening in place.
- The blade on the product is sharp. Use extreme caution and wear heavy-duty gloves when fitting, replacing, cleaning, or checking bolt security.
- Have the product serviced by an authorised service centre to replace damaged or unreadable labels.
- Check all nuts, bolts, and screws at frequent intervals for proper tightness to be sure that the product is in safe working condition.
- Check the grass catcher frequently for wear, holes, or deterioration. This can cause objects to be thrown towards the operator.
- Replace worn or damaged parts before operating the product.
- Turn on the engine carefully with the user behind the handlebars in the operator safety zone. Never start the product if:
  - Not all four wheels are not on the ground.
  - The grass discharge chute is exposed and is not protected by the grass box and grass discharge chute cover.
  - Hands and feet of all persons are not clear of the cutting enclosure.
- Do not force the product. It will do the job better and safer at the speed for which it was designed.
- Maintain a safe operating speed when using the product; never run.
- Do not overload the product. Mowing long, thick grass may cause the engine speed to drop or the power to cut out. When mowing in long thick grass, set a high cutting height on your first cut to help reduce the load.
- Stop the blade when crossing gravel surfaces.
- Do not pull back the product unless absolutely necessary. If you must back the product away from a wall or obstruction, first look down and behind to avoid tripping or pulling the product over your feet.
- Stop the engine and allow the blade to stop if the product has to be tilted for transportation when crossing surfaces other than grass, and when transporting the product to and from the area to be mowed.
- Never use the product with defective guards or shields, or without safety devices, such as deflectors and/or grass catchers, in place.
- Do not tilt the product when starting the engine or while the engine is running. This exposes the blade and increases the probability of objects being thrown.
- Turn on the engine carefully according to instructions, and keep hands and feet away from the cutting area. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times. Do not start the product when standing in front of the discharge opening
- Never pick up or carry the product while it is running.
- When not in use, store the product in a well-ventilated, dry, or locked-up place that is out of the reach of children.
- Follow the manufacturer's instructions for proper operation and installation of accessories. Use only accessories approved by the manufacturer.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Do not change the engine governor settings or over-speed the engine.
- Turn off the product, and wait until the blade comes to a complete stop. Allow the product to cool down, then disconnect the spark plug wire:
  - before leaving the product unattended (including disposal of grass clippings).
  - before clearing blockages or unclogging discharge chute
  - before checking, cleaning, or working on the product
  - before removing the grass catcher or opening the grass discharge chute cover
  - before refuelling
- If the product starts to vibrate abnormally, check immediately to:
  - inspect for damage, particularly the blades
  - replace or repair any damaged parts
  - check for and tighten any loose parts
- If the product strikes a foreign object, follow these steps:
  1. Stop the product and turn off the engine.
  2. Thoroughly inspect the mower and grass catcher for any damage.
  3. Repair any damage before restarting and continuing to operate the mower.

- Avoid holes, ruts, bumps, rocks, star pickets, or other hidden objects. Uneven terrain could cause a slip-and-fall accident.
- Allow the engine to cool down before storing in any enclosure.
- To reduce the risk of fire, keep the engine, silencer, and petrol storage area free of grass, leaves, and excessive grease.
- If the fuel tank has to be drained, this should be done outdoors.
- Disconnect the spark plug wire before making any adjustment, transporting, or storing the product. Such preventive safety measures reduce the risk of starting the product accidentally.
- The product is noisy, and may cause permanent hearing injury if precautions to limit your exposure and to reduce noise are not strictly adhered to.

## SERVICE

- Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in a risk of injury to the user or damage to the product.
- When servicing, use only original manufacturer's replacement parts. Use of unauthorised parts may create a risk of serious injury to the user, or damage to the product.

**NOTE:** Only perform the tasks listed in this manual. For other service or repair, have the product serviced by an authorised service centre only.

Save this manual for future reference. Refer to them frequently and use them to instruct others who may use the product. If you loan the product to someone, include these instructions also.

## RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise in use and the operator should pay special attention to avoid the following:

- injury caused by vibration
  - Always use the right tool for the job. Use designated handles and restrict working time and exposure.
- injury caused by noise
  - Exposure to noise can cause hearing injury. Wear ear protection and limit exposure.
- injury from contact with the blades
- injury caused by thrown objects

## RISK REDUCTION

It has been reported that vibrations from handheld tools may contribute to a condition called Raynaud's Syndrome. Symptoms may include tingling, numbness, and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking, and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- Keep your body warm in cold weather. When operating the product, wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.

If you experience any of the symptoms of this condition, immediately discontinue use and see your physician.

## WARNING

Injuries may be caused, or aggravated, by prolonged use of a tool. When using any tool for prolonged periods, ensure you take regular breaks.

## SYMBOLS

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



Precautions that involve your safety



To reduce the risk of injury, user must read and understand the operator's manual before using the product.



To avoid injury, stay away from moving parts at all times.  
Danger! Keep hands and feet away.



To avoid injury, stay away from moving parts at all times.



Danger of ricochet. Keep all bystanders at least 15 m away.



Danger! Keep hands and feet away. Before performing maintenance, remove the spark plug socket.



Remove objects that could be thrown by the rotating blade.



Keep bystanders at a safe distance away from the product.



To reduce the risk of injury or damage, avoid contact with any hot surface.



The product is a potential source of electric shock. Do not expose to moisture, rain, or snow. Do not operate with wet hands or feet.



When the product is used, it gives off carbon monoxide, an odourless, colourless, poison gas. Breathing carbon monoxide can cause nausea, fainting, or death.



Add SAE 10W-30 API-SJ or higher weight engine oil in the engine sump.



Fill the fuel tank with unleaded petrol (91 or higher).



Turn the fuel tap to the "Open" position.



Set the throttle lever to the "Start/Run" position.



Firmly push the primer bulb 3 times.



Pull the starter grip up to 2 times. Once the engine starts, release the starter grip slowly so that the rope does not snap back.



Mow when the grass catcher is empty.



Stop mowing when the grass catcher is full.



Fuel and its vapours are explosive and can cause severe burns or death.



Fuel and its vapors are extremely flammable and explosive. Fire can cause severe burns or death.



Use unleaded petrol intended for motor vehicle use with an octane rating of 91 or higher.



Use SAE 10W-30 API-SJ or higher weight oil.



Regulatory Compliance Mark (RCM) Product meets applicable regulatory requirements.



The guaranteed sound power level is 97 dB(A).



Stop the product.

## DESCRIPTION

1. Throttle lever
2. Rotate knobs
3. Grass catcher
4. Fuel cap
5. Primer bulb
6. Air filter cover
7. Fuel tap
8. Side discharge door
9. Spark plug boot
10. Height adjustment lever
11. Oil cap/Dipstick
12. Starter grip
13. Rope guide knob
14. Mulching plug
15. Fuel tap - close
16. Fuel tap - open
17. Locking mechanism
18. Blade disc
19. Ellipse washer
20. Flat washer
21. Lock washer
22. Loosen the disc bolt
23. Tighten the disc bolt
24. Disc bolt
25. Engine side
26. Lock nut
27. Washer
28. Wave washer
29. Blade
30. Bolt
31. Ground side
32. Spark plug
33. Air filter

## ASSEMBLY

### UNPACKING

The product requires assembly.

- Carefully inspect the product to make sure that no breakage or damage occurred during shipping.
- If any parts are damaged or missing, please call your RYOBI service centre for assistance.

### PACKING LIST

Lawn mower	Side discharge deflector
Grass catcher	Handle bolts x 4
Operator's manual	Handle nuts x 4
Cable guide	Screws x 4
Rope guide	Figure sheet
Mulching plug	Nut

#### WARNING

If any parts are damaged or missing, do not operate the product until the parts are replaced. Using a product with damaged or missing parts could result in serious personal injury.

#### WARNING

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

#### WARNING

The product safety systems or features shall not be tampered with or disabled.

#### WARNING

Never attach or adjust any accessory while the product is running. Failure to stop the engine may cause 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 operate the mower without the proper safety devices in place and working. Never operate the mower with damaged safety devices. Operation of the product with damaged or missing parts could result in serious personal injury.

#### WARNING

Do not allow familiarity with the product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

## INSTALLATION

See Fig. 2.

1. Raise the cutting blade height to the highest position.
2. Place the handles in the correct operating position. Feed the bolts through the holes in the upper and lower handles, then tighten the rotate knobs to secure the handles in place.
3. Install the grass catcher or the mulching plug.

### INSTALLING THE GRASS CATCHER

See Fig. 5.

**NOTE:** Do not install the mulching plug when using the grass catcher.

1. Lift the rear discharge door.
2. 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.
3. Release the rear door. When installed correctly, the hooks on the grass catcher will rest securely in the slots on the handle brackets.
4. Ensure that the rear door is fully engaged on the grass catcher. Make sure that there is no gap between the rear door and the grass catcher.

### INSTALLING THE MULCHING PLUG

See Fig. 4.

**NOTE:** Do not install the grass catcher when using the mulching plug.

1. Lift and hold up the rear discharge door.
2. Grasp the mulching plug by its handle and insert the right side of the plug into the rear of the deck as shown on the manual figure page.
3. Proceed to slide the left side of the plug into the left side of the deck opening as shown on the manual figure page.
4. Push the mulching plug forward, then down until it locks in place, firmly seated inside the rear of the deck.

### REMOVING THE MULCHING PLUG

1. Lift and hold up the rear discharge door.
2. Grasp the mulching plug by its handle, lift up then pull it out slowly.

## OPERATION

### FUEL AND REFUELLING

#### WARNING

Always handle petrol with care; it is highly flammable.

- Use fresh fuel.
- Store fuel in containers specifically designed for this purpose. In general, plastic containers are unsuitable.
- Always refuel outdoors where there are no sparks and flames. Do not inhale fuel vapour. Do not smoke. Stay away from open flames and sparks when filling fuel tank or when 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 physician immediately.
- Immediately clean up spilled petrol.

### FILLING THE TANK

See Fig. 6.

#### WARNING

Always shut off the engine and allow it to cool down for 5 minutes before refuelling. Never remove the cap of the fuel tank, or add petrol to the product with a running or hot engine. Move at least 9 m (30 ft) from refuelling site before starting the engine. Do not smoke. Failure to heed this warning could result in serious personal injury.

#### WARNING

Do not overfill. Fill the fuel tank to 25 mm below the top of the fuel neck. After fueling, never tilt the mower more than 25 degrees as this could result in fuel leakage and risk of fire.

**NOTE:** Always use unleaded petrol (91 or higher).

1. Clean the surface around the fuel cap to prevent contamination.
2. Loosen the fuel cap slowly to release pressure and to keep fuel from escaping around the cap. Rest the cap on a clean surface.
3. Carefully pour petrol into the tank. Avoid spillage.
4. Clean and inspect the gasket, then replace all fuel and container caps securely. (See "Fuel cap" section on page 9)
5. Wipe up any fuel spillage. Move 9 m away from refuelling site before starting the engine.

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

### ADDING/CHECKING ENGINE OIL

See Fig. 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 damage the engine and should not be used.

#### To add engine oil:

1. Ensure that the mower is level and the area around the oil cap/dipstick is clean.
2. Remove the cap and seal from oil bottle.
3. Unscrew the oil cap/dipstick and remove.
4. Slowly add oil. Fill to the "MAX" 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.

5. Reinstall and secure the oil cap/dipstick.

#### To check engine oil:

1. Ensure that the mower is level and the area around the oil cap/dipstick is clean.
2. Remove the oil cap/dipstick. Wipe clean and reseal in oil fill hole but do not screw in.
3. Remove the oil cap/dipstick again and check the oil level. Add oil as needed.

### STARTING/STOPPING THE MOWER

See Fig. 6.

#### WARNING

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

#### Pre-checks

1. Check and ensure that the oil level is sufficient by inspecting the oil level with the dipstick seated. Check and ensure that the petrol tank has sufficient regular unleaded fuel.
2. Turn the fuel tap to the "Open" position.

#### Starting the engine

3. Set the throttle lever to the start/run position (down against the handle).
4. Firmly push and slowly release the primer bulb 3 times.
 

**NOTE:** When pushing and releasing the primer bulb, ensure that your finger covers and seals the centre hole (in the bulb), and that you release the bulb at a slow pace. This creates a partial vacuum, drawing petrol into the primer from the carburettor. Pushing the primer bulb forces fuel into the inlet manifold to enrich the mixture.

**NOTE:** Priming the engine may not be necessary when restarting a warm engine.



- Pull the starter grip up to 2 times.  
**NOTE:** If the engine does not start after 2 pulls, repeat the process of priming the fuel bulb 3 more times, then pull the starter grip up to 2 times. Once the engine starts, release the starter grip slowly so that the rope does not snap back.
- Ensure that the throttle lever is set to start/run position (down against the handle), then proceed with mowing.

## Stopping the engine

Return the throttle lever to the "Stop" position (hard up against the top of the mower handles).

## SETTING THE BLADE HEIGHT

See Fig. 8.

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 38 mm to 50 mm during cool months and between 50 mm and 76 mm during hot months.

### To set the blade height:

- Stop the product, and wait for the blade to come to a complete stop.
- To raise the blade height, grasp the height adjustment lever, and move it toward the back of the mower.
- To lower the blade height, grasp the height adjustment lever and move it toward the front of the mower.

For best performance of the mower, use the cutting heights for each cutting mode in the table below.

Cutting mode	Cutting height	Reference
Mulch Mode	3-8	See Fig. 4.
Catch Mode	3-8	See Fig. 5.
Side discharge mode	1-8	See Fig. 9.

## SETTING THE HANDLE LENGTH

See Fig. 7.

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

- Loosen and remove the rotate knobs.
- Remove the bolts.
- Reinsert the bolts in a higher or lower position.
- Tighten the rotate knobs.

## INSTALLING THE SIDE DISCHARGE DEFLECTOR

See Fig. 9.

**NOTE:** When using the side discharge deflector, do not install the grass catcher. The mulching plug should remain installed. When the side discharge deflector is not used, ensure that the side discharge door is in lock position.

- Push the locking mechanism.
- Lift the side discharge door.

- Align the hooks on the deflector with the hinge rod on the underside of the door. Lower the deflector until the hooks are secured on the mulch door hinge rod. Then release the deflector and side discharge door.

**NOTE:** After each use, clean and inspect the locking mechanism to ensure it is still functioning properly.

## MOWING TIPS

- Make sure that the lawn is clear of stones, sticks, wires, and other objects that could damage the lawn 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 bagging or discharge of the grass clippings.
- New or thick grass may require a narrower cut path.
- When the fuel tank is empty and before refuelling, tip the mower on the left hand side with the fuel cap at the highest position to prevent fuel spillage. Remove the spark plug lead to prevent accidental starting. The blade is sharp; avoid contact with it.
- Check the blade and underside of deck for any damage or build up of debris, and clean it if necessary. Check the blade bolt and ensure that it is installed securely.

## SLOPE OPERATION

See Fig. 10.

- 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, never 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, which could be tripped over or thrown by the blade.
- Always be sure of your footing. A slip-and-fall accident 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 Fig. 11.

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

4. Empty the grass clippings.
5. Lift the rear discharge door, and reinstall the grass catcher.

## ⚠ WARNING

Use caution when lifting or tilting the product for maintenance, cleaning, storage, or transportation. The blade is sharp, even though the engine is shut off, the blades can still be moved. Keep all body parts away from the blade while it is exposed.

## MAINTENANCE

## ⚠ WARNING

If the product is not maintained correctly, the life span of the product may be reduced, and built-in safety features may not function correctly, thus increasing the potential for serious injury. Keep the product in good working condition.

## ⚠ WARNING

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

## ⚠ WARNING

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

## GENERAL MAINTENANCE

You may make adjustments and repairs described in this manual. For other repairs, contact an authorised service centre.

- 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, or grease.
- Periodically check all nuts and bolts for proper tightness to ensure safe operation of the product.
- Remove any buildup of grass and leaves on or around the engine and engine cover. Occasionally wipe the mower clean with a dry cloth. Do not use water.
- Frequently check the grass catcher for wear or deterioration.

## ⚠ WARNING

Do not, at any time, let brake fluids, gasoline, petroleum-based products, or penetrating oils come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

## SPARK ARRESTOR

- The product is fitted with a spark arrestor (which is inside the exhaust).

**NOTE:** It is recommended that the spark arrestor is only cleaned only at an authorised service centre.

## LUBRICATION

All of the bearings in the 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.

## REPLACING THE CUTTING BLADE

See Fig. 12.

## ⚠ WARNING

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

Be careful when replacing the mower blade. Ensure that your fingers do not get caught between the moving blade and the fixed parts of the product.

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. Using a blade that is not approved by the manufacturer of the product is hazardous and could result in serious injury, damage to the product, and will void your warranty.

## ⚠ WARNING

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

1. Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down. Disconnect the spark plug wire.
2. Turn the product on its side, carburettor (air filter side) facing up.

**NOTE:** Make sure that the carburettor is facing up.

3. Wedge a block of wood between the blade disc and mower deck to prevent the blade disc from turning.
4. Using a socket (not provided), loosen the disc bolt by turning the bolt in a counterclockwise direction as viewed from the bottom of the mower.
5. Remove the disc bolt, lock washer, flat washer, ellipse washer, and blade disc.

**NOTE:** 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) blades need to be replaced. Failure to replace the blades as a set may result in an out of balance situation resulting in damage to the engine.

6. Loosen the blade lock nuts on the old blades by turning them counterclockwise.
7. Remove the blade lock nuts, washers, blades, wave washers, and bolts from the blade disc.
8. Reassemble the new blades as shown in the accompanying figure sheet. Ensure that the new blades raised edges face towards the inside of the mower deck once the disc is reinstalled to the mower. If the blades are not assembled correctly, the grass will not get directed to the rear of the deck (to be caught in the catcher). Ensure that the wave washer is positioned between the blade and the disc. Ensure that the lock nuts are tightened (clockwise) over the flat washer and disc, properly securing the blade to the disc.  
**NOTE:** When attaching the blades on the blade disc, tighten the blade bolt until it is securely fastened (the nut should not move when the blade is moved). The nut should then be tightened 1/6 of a turn (one flat). Replace the blades as a complete set of four (4) to maintain balance.
9. Assemble the blade disc, flat washer, lock washer, and disc bolt on the shaft. Finger tighten the disc bolt by turning in a clockwise direction as viewed from the bottom of the mower.
10. Torque the disc bolt using a torque wrench (not provided) to ensure that the bolt is properly tightened. The recommended torque for the disc bolt and blade lock nut is 35–45 Nm (26–33 ft. lb.). After bolt is finger tight, it should be tightened a further 1¼ turns.  
**NOTE:** When securing blade disc, tighten the disc bolt until the lock washer is completely flattened.  
**NOTE:** Do not sharpen the blades, replace with new item. Blades need to be properly balanced to avoid damage and personal injury.  
**NOTE:** Ensure that all parts are replaced in the exact order in which they were removed.

## CLEANING THE AIR FILTER

See Fig. 14.

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

1. Remove the air filter element cover by pushing the latch with your thumb while gently pulling the cover.
2. Remove the paper air filter element for inspection.
3. 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 element restricts air flow and may result in damage to the engine. The life span of the air filter element depends upon the environment in which the product is used, and it should be inspected and cleaned regularly and replaced when dirty. Replacement air filter elements can be ordered through the Bunnings special orders desk. The RYOBI part number for Australia and New Zealand is 17150Z0301100000.

4. Reinstall the cleaned or new air filter element into the air filter base.
5. Replace and secure the cover of the air filter element.  
**NOTE:** The air 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 sealing gasket and a check valve to allow air in.

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 fuel cap if required.

When refitting the fuel cap, ensure that it is not cross-threaded; otherwise it will leak.

## CHANGING THE ENGINE OIL

See Fig. 15.

1. Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down. Disconnect the spark plug wire.
2. Ensure that the fuel tank is completely empty before tipping the unit over; otherwise, fuel will leak out.
3. Engine oil should be changed after every 20 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.
4. Remove the oil fill cap/dipstick.
5. Tip the mower onto its side, and allow the oil to drain from the oil fill hole into an approved container.
6. Place mower upright and refill with oil following the instructions in the "Adding/Checking Oil" section.
7. **NOTE:** Dispose of used oil at an approved disposal site. See your local oil retailer for more information.

## SPARK PLUG MAINTENANCE

See Fig. 13.

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

1. Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down.
2. Remove the spark plug boot.

3. Clean any dirt from around base of spark plug.
4. Remove spark plug using a 20.6 mm spark plug socket (not provided).
5. 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 model is NGK BPR7HS.
6. Measure the plug gap. The correct gap is 0.71 mm – 0.79 mm. To widen gap, carefully bend the ground (top) electrode. To lessen gap, gently tap ground electrode on a hard surface.
7. Seat spark plug in position, and thread in by hand to prevent cross-threading.
8. 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 becomes very hot and could damage the engine.
9. Re-attach spark plug boot.

## REPLACING WHEELS

See Fig. 16.

### ⚠ WARNING

Use only the manufacturer's replacement wheels. Using wheels that are not approved by the manufacturer is hazardous and could result in serious personal injury.

1. Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down. Disconnect the spark plug wire.
2. Remove the spat (hub cap).
3. Remove the nut from the wheel axle, then remove the wheel.
4. Replace with new wheel, and reinstall nut to secure.
5. Assemble the spat (hub cap).

## STORING THE PRODUCT

### ⚠ WARNING

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

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

1. Perform one of the following:
  - If using a fuel stabilizer, follow the stabilizer manufacturer's directions to add stabilizer to petrol in the fuel tank. Run the engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburettor.
  - If not using a fuel stabilizer, allow the engine to run until the product is completely out of fuel.
2. Once the engine has stopped, allow the blade to come to a complete stop, and disconnect the spark plug wire.

3. Turn the product on its side (with carburettor facing up), and clean grass clippings that have accumulated on the underside of the mower deck.
4. Clean the underside of the mower deck.
5. Wipe the product clean with a dry cloth.
6. Check all nuts, bolts, knobs, screws, and fasteners for tightness.
7. Inspect moving parts for damage, breakage, and wear. Have repairs made on any damaged or missing parts.
8. Store the product in a well-ventilated area that is clean, dry, and is out of the reach of children.
  - Do not store the product near corrosive materials, such as fertilizer or rock salt.
  - Do not store the product outdoors.

### To lower the handle before storing

See Fig. 3.

1. Loosen the starter rope guide knob. Remove starter rope from the guide, and allow to retract into engine.
2. Loosen the rotate knobs.
3. Fold the upper handle down.
4. Unlock the lower handle quick-release fasteners.
5. Fold the lower handle forward, making sure not to bend or kink the control cables.

## TRANSPORTATION

- Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down before storing or transporting. Disconnect the spark plug wire.
- Empty the fuel tank by running the engine until it stops. Empty oil by following the instruction for changing oil.
- Clean all foreign materials from the product. Store the product in a cool, dry, and well-ventilated place that is inaccessible to children. Keep the product away from corrosive agents such as garden chemicals and deicing salts. Do not store the product outdoors.
- Secure the product against movement or falling to prevent injury to persons or damage to the product, or loss of fuel.

### ⚠ WARNING

Use caution when lifting or tilting the product for maintenance, cleaning, storage, or transportation. The blade is sharp, keep all body parts away from the blade while it is exposed.

## PRODUCT SPECIFICATIONS

Petrol Lawn Mower	RLM46175YB
Engine displacement	175 cc OHC
Type	4-stroke air-cooled engine
No-load speed of cutting means	2800 min <sup>-1</sup>
Fuel consumption at Max. Engine performance	1.4 kg/h
Specific fuel consumption at Max. Engine performance	395 g/kWh
Cutting width	46 cm
Cutting height adjustment	8 positions, 20 mm - 75 mm
Wheel size (Front/ Rear)	17.8 cm (7 in.) / 20.3 cm (8 in.)
Fuel tank capacity	1200 ml (+/-50 ml)
Fuel type	Unleaded fuel (91 or higher)
Oil type	SAE 10W-30 API-SJ or higher weight oil
Engine sump capacity	500 ml (+/-50 ml)
Net weight	35 kg
Grass catcher capacity	55 L
Disc bolt, blade bolt, and blade lock nut torque	35~45 Nm
Engine mounting bolt torque	20~25 Nm
Vibration Level (in accordance with Annex G of EN ISO 5395-1)	
Right Handle	1.7 m/s <sup>2</sup>
Left Handle	2.29 m/s <sup>2</sup>
Uncertainty of Measurement	1.5 m/s <sup>2</sup>
Declared vibration value	5 m/s <sup>2</sup>
Noise emission level (in accordance with AS 3534-1988)	
The guaranteed sound power level L <sub>WA</sub>	97 dB(A)
Replacement part	
Blade	099923021001

## VIBRATION LEVEL

The declared vibration value has been measured with a standard test method and may be used to compare one tool with another.

The declared vibration value may be used in a preliminary assessment of exposure.

The vibration emission during actual use of power tool can differ from the declared total value depending on the ways in which the tool is used.

Identify safety measures to protect yourself based on an estimation of exposure in the actual conditions of use, taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time.

## MAINTENANCE SCHEDULE

	Before each use	After 1st month or 20 hours of operation	Every 3 months or 50 hours of operation	Every 6 months or 100 hours of operation	Every 12 months or after 300 hours of operation
Check engine oil	■				
Change engine oil		■		■	
Check air filter	■				
Clean air filter			■		
Change air filter					■
Check/adjust spark plug				■	
Replace spark plug					■
Check/adjust idle speed					■
Check/adjust valve clearance*					■
Clean fuel tank and filter*				■	
Check fuel tube					■
Check for worn or damaged parts	■				
Check all starting interlock and throttle lever for proper functionality	■				
Check if the blade stops within 6 seconds after setting the throttle lever to the "Stop" position (hard up against the top of the mower handles)	■				

\* These items should only be carried out by an authorised service center.

**NOTE:** Maintenance should be performed more frequently when the product is used in dusty areas.

When the engine has exceeded the maximum figures specified in the table, maintenance should still be cycled according to the intervals of time or hours stated herein.

## TROUBLESHOOTING

Problem	Possible cause	Solution
The mower will not start. (Ensure the throttle lever is pushed all the way down.)	There is no petrol or old petrol in the fuel tank.	Fill the mower with fresh petrol. (See page 6.)
	The fuel tap is in the "close" position.	Set fuel tap to the "open" position. (Refer to the Figure Sheet)
	The primer bulb was not pressed.	Firmly push and slowly release the primer bulb at least 3 times.
	The engine is flooded.	Wait for 5 minutes, then try starting the mower again. (Refer to the "Starting/stopping the mower" section)
	No spark.	Check for sparks. Remove the spark plug. Reattach the spark plug cap and lay spark plug on the metal cylinder. Pull the starter grip and watch for sparks at the spark plug tip. If there is no spark, repeat the test with a new spark plug. (See page 9.)
	The starter grip is difficult to pull and may be stuck.	Contact an authorised service centre.
The engine starts but does not run properly.	The carburettor requires adjustment.	Contact an authorised service centre.
The engine starts but stops soon after starting.	The carburettor requires adjustment.	Contact an authorised service centre.
The engine does not reach full speed and/or emits excessive smoke.	The air filter is dirty.	Clean the air filter. (Refer to the "Cleaning the air filter" section)
	The carburettor requires adjustment.	Contact an authorised service centre.
The engine runs but vibrates excessively.	The blade disc is unbalanced.	Replace the blades in sets of four (4) to maintain the balance.
	The motor shaft is bent.	Stop the product. Make sure that all moving parts have come to a complete stop. Allow the product to cool down. Disconnect the spark plug wire. Inspect for damage. Have the damage repaired by an authorised service centre before restarting the product.
The cut grass is not entering the grass catcher.	The mulching plug is inserted.	Remove the mulching plug when using the grass catcher.
	The cutting height is set too low.	Raise the cutting height. Cutting very wet grass at a low cutting height will also greatly hinder the ability of the mower to throw the grass to the catcher. We recommend cutting the grass when it is not as wet.
	The grass catcher is full.	Empty the grass catcher to allow newly cut grass clippings to enter.



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