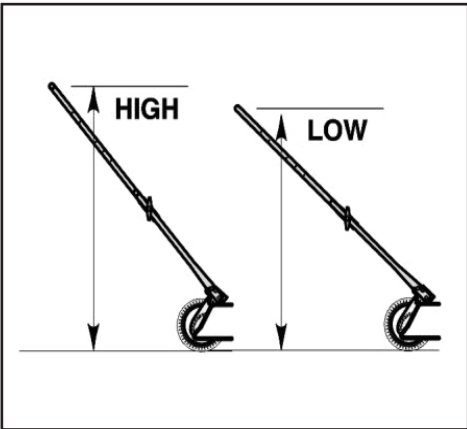
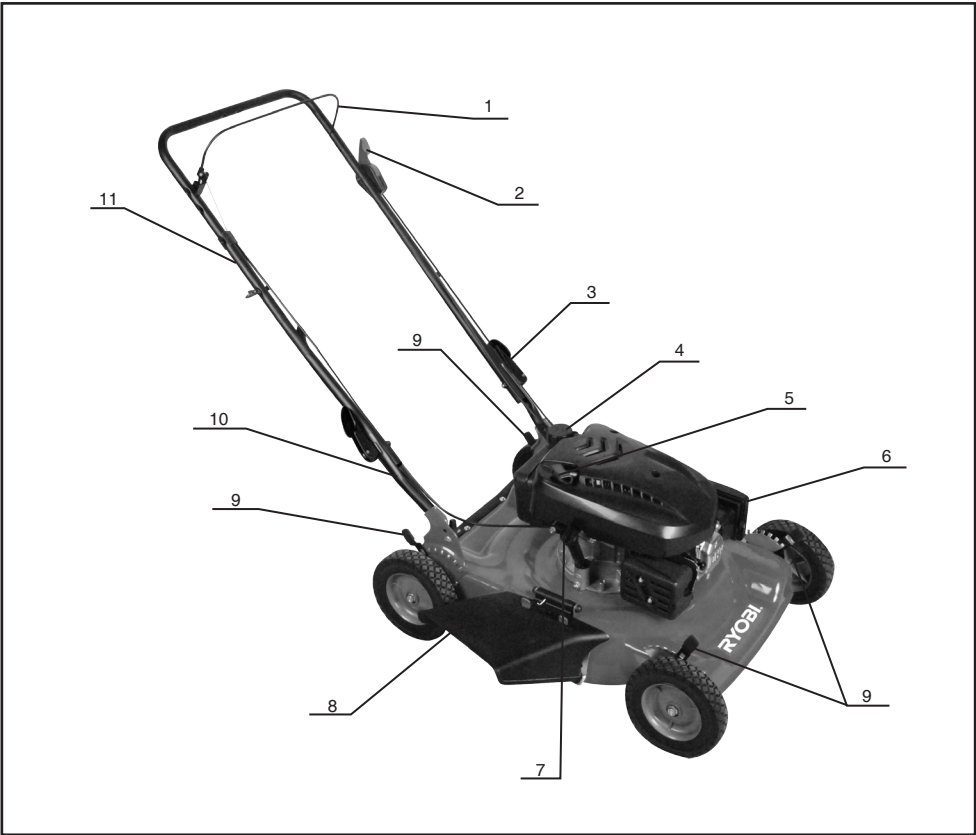


# RYOBI®

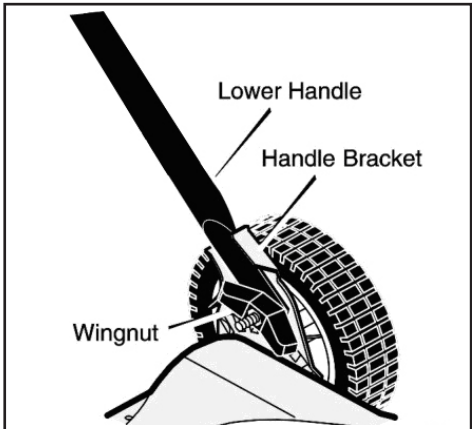
## RM-65SD

Ⓒ OWNER'S OPERATING MANUAL

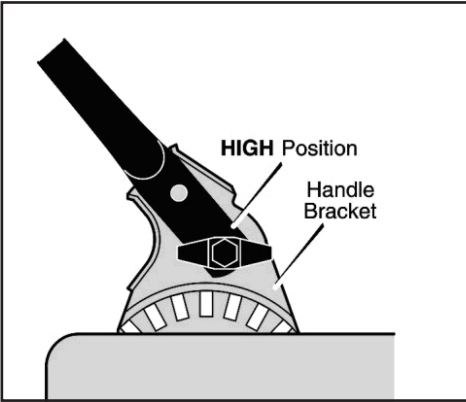




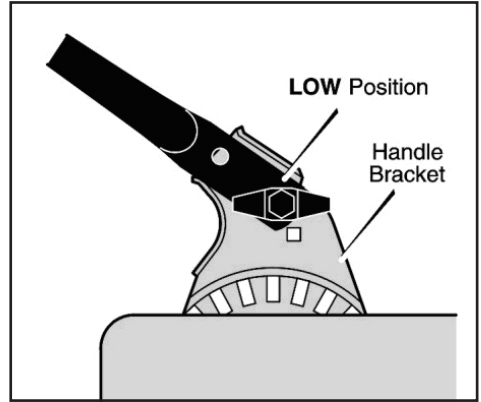
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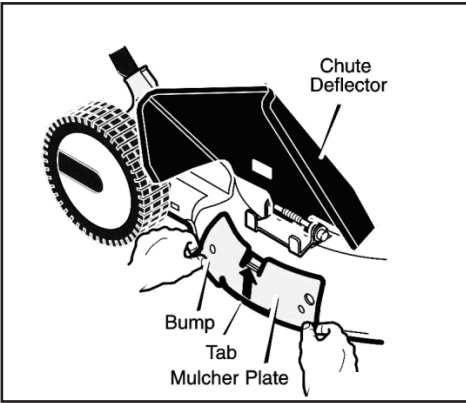
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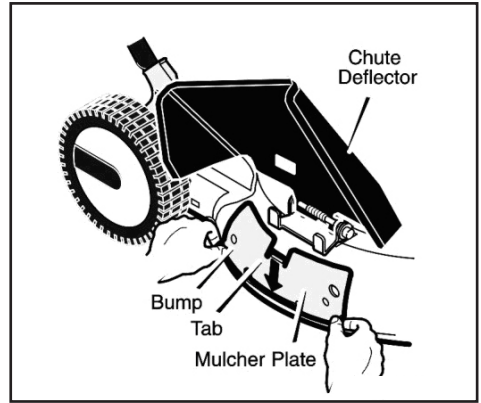
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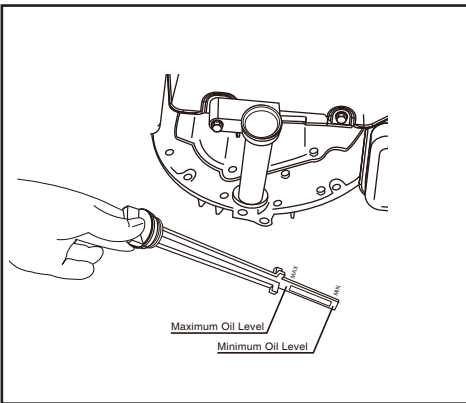
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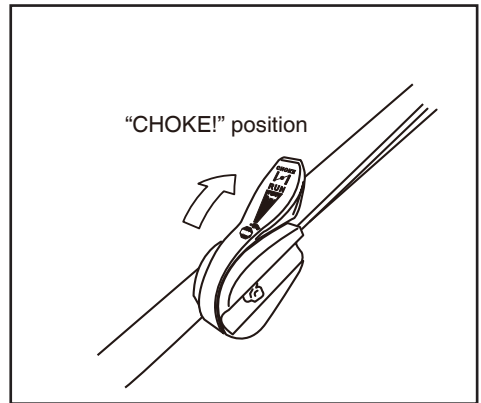
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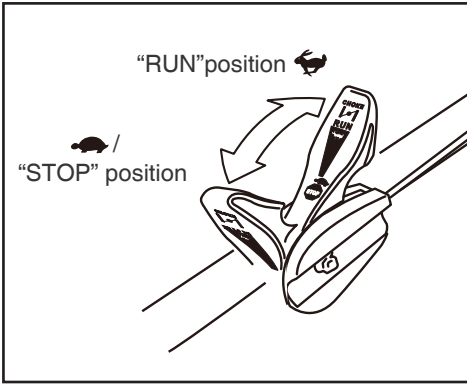
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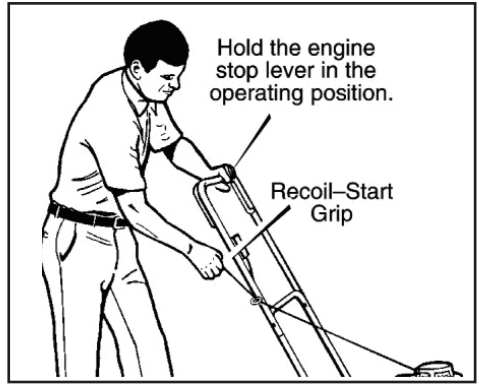
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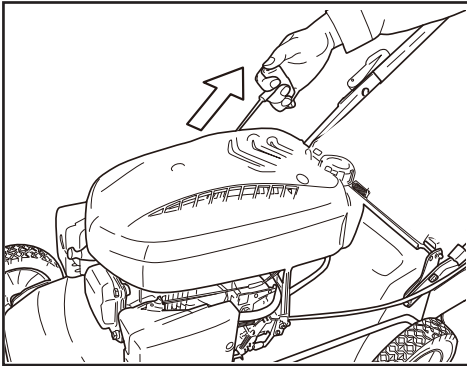
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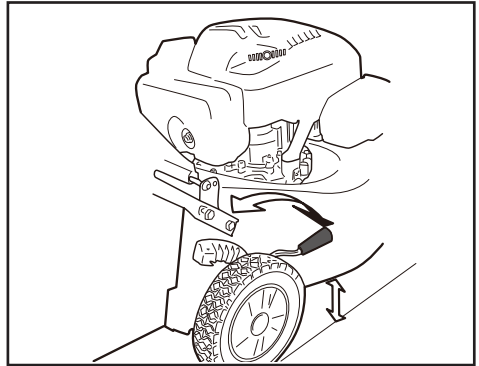
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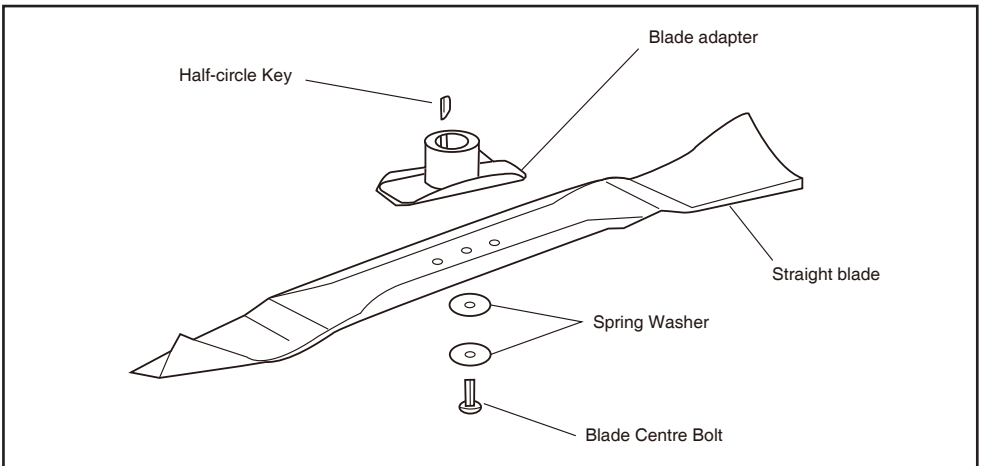
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**THANK YOU FOR BUYING A RYOBI PRODUCT.**  
To ensure your safety and satisfaction, carefully read through this OWNER'S MANUAL before using the product.

## GENERAL SAFETY RULES

**WARNING!** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool battery-operated (cordless) power tool or petrol power tool.

## SAVE THESE INSTRUCTIONS

### 1) Work area

- a) Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 2) Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

### 3) Power tool use and care

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Stop engine before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and

do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

### 4) Service

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## SPECIFIC RULES FOR LAWMOWER

1. Never start or run the unit inside a closed room or building. Breathing exhaust fumes can kill. Operate this unit only in a well ventilated area outdoor.
2. Do not start the engine unless the chute deflector and/or mulch plate are securely in position.
3. Do not mow while people or pets are in the vicinity of the mower or within the mowing area. Ensure that bystanders are a minimum of 15 metres away.
4. Do not mow bare foot or with open shoes. Wear long trousers, heavy footwear, eye and ear protection. Secure your hair above shoulder level.
5. Make sure the lawn is clear of sticks, stones, bones, wire and debris before mowing. These could be thrown by the blades and cause injury or damage.
6. Be sure the cutting attachment is not in contact with anything before starting the unit.
7. Mow only in good daylight or artificial light.
8. Start the engine carefully with feet well clear of blades. Do not tilt the mower when starting the engine.
9. Stop the engine whenever you leave the mower, even for a moment.
10. Keep hands and feet away from all moving parts. Do not touch or try to stop the cutting attachment when it is rotating.
11. Do not overreach. Always keep proper footing and balance.
12. Do not over speed the engine or alter the governor settings. Excessive engine speed is dangerous and shortens mower life.
13. Never remove the fuel tank cap while the engine is running.
14. Do not touch the engine or muffler. These parts get extremely hot from operation. When turned off they remain hot for a short time.
15. Stop the engine before pushing the mower across gravel, paths or roads. Stop the engine before the mower leaves the lawn.
16. Stop the engine before adjusting the cutting height.
17. Stop the engine before attaching and removing mulcher plate. Never try to clear grass from inside the



mower while the engine is running.

18. Mow across the face of a slope, never up or down. Use extreme caution when changing direction on a slope. Do not mow on excessively steep slopes.
19. Never mow by pulling the mower towards you. You could slip and pull the mower on top of your feet.
20. Walk with the mower, never run.
21. The safety distance determined by the guiding handles must be maintained at all times.
22. At the conclusion of mowing, always turn the mower off using the throttle lever.
23. If you strike or become entangled with a foreign object, stop the engine immediately and check the damage.
24. Unreasonable rough operation will shorten the life of the machine, and also it will create an unsafe environment for yourself and those around you.

## BEFORE MOWING

1. Be sure to dress correctly. Wear hard shoes, not sandals or tennis shoes.
2. Examine the blade. A blade that is bent, cracked, or damaged must be replaced with a factory replacement blade.
3. Fill the fuel tank outside. Clean off spilled fuel.
4. Read and follow the Owner's Manual, the instructions with the engine, and the instructions with any attachments. Owner's Manual instructions are for your safety and the safety of others.
5. Exhaust fumes are dangerous. Start the engine outside.
6. Make sure all safety devices are in place and working correctly.
7. Operation of the mower is only for a person that has experience.
8. Wet grass can be dangerous. Let the grass dry.
9. Instruct children and others to keep away from the work area.
10. Never cut the grass without good light.
11. Pick up loose objects. Remove them from the mowing area.

## WHILE MOWING

1. Watch for fixed objects and avoid them. They can damage the mower or cause injury.
2. A hot engine and muffler will cause a burn. Do not touch.
3. Inclines and slopes must be carefully mowed.
4. Lack of daylight or good artificial light is cause to stop mowing.
5. Examine the mower, the blade, and other parts for damage after hitting a foreign object or if the unit vibrates excessively.
6. Do not make adjustments or repairs without stopping the engine (except for carburetor). Disconnect the spark plug wire.
7. On or near roads, watch out for traffic. Direct discharge away from roads.
8. When mowing, avoid areas where traction is unsure. Before and while moving backwards, look behind and down for small children.
9. In heavy grass, raise the cutting height. Cut slower. Stop the engine to remove clogged grass from the mower.
10. Never remove any safety related parts.
12. Do not pour gasoline into a engine that is hot or running.

## AFTER MOWING

1. Always let the mower cool before storing in an enclosed area.
2. Foreign material on the mower is dangerous. Clean off grass, leaves, grease and oil before storing.
3. Tighten all loose nuts, bolts and screws before you use the unit.
4. Clear grass from inside of the mower.
5. Remove the key or disconnect the spark plug wire to prevent unauthorized use.
6. Make sure the mower is not kept near a source of ignition. Gas fumes can cause an explosion.
7. Only original parts or factory approved substitutes can be used to service the mower.
8. When storing the mower for an extended period, remove the fuel from the fuel tank.
9. Instruct children to leave the mower alone. It is not a toy.
10. Never keep gasoline near a source of ignition. Always use an approved container. Keep gasoline away from children.
11. Lubricate according to the Instruction Book. See "Lubrication".

## DESCRIPTION

1. Engine stop lever
2. Throttle lever
3. Handle secure lever
4. Fuel cap
5. Recoil start grip
6. Air filter housing
7. Oil filter cap / oil dip stick
8. Chute deflector
9. Height adjustment lever
10. Lower handle
11. Upper handle

## SPECIFICATIONS

Engine capacity	173cc
Engine type	4-stroke
Maximum power	3.4kw/3600min <sup>-1</sup>
Cutting path	550mm
Cutting height	15-84mm (7 positions)
Drive type	Hand push
Net weight	28kg

## ASSEMBLY

**CAUTION:** Before setting up the lawnmower, disconnect the spark plug wire from the spark plug, and ground it against the engine by attaching rubber boot to a bolt or metal clip to the grounding post on the engine.

### Assemble the handle

Unfold the upper handle(11), and secure the upper handle to the lower handle(10) with the handle secure levers(3).

**CAUTION:** Be careful when you fold or raise the handle. Do not damage the cables. A cable that is bent will not work correctly. Before you use the unit, replace a bent or damaged cable.

### Attach the recoil-start grip

Twist the recoil-start rope through the rope guide mounted on the right side of the handle to attach the recoil-start grip(5).

**NOTE:** If you cannot attach the recoil-start grip because the rope is too short, hold the engine stop lever against the handle. Slowly pull the recoil-start grip.



## ADJUSTMENT

### Adjust the handle height

The handle bracket has two assembly positions. A HIGH and a LOW position (Fig 1). The HIGH position will raise the handle approximately four inches.

- Remove the wingnuts and bolts from the right and left handle brackets (Fig 2).
- To raise the handle, mount the lower handle in the HIGH position (Fig 3).
- To lower the handle, mount the lower handle in the LOW position (Fig 4).

### Mulcher plate removal and installation

**WARNING:** Before you remove or install the mulcher kit, disconnect the wire from the spark plug.

A side discharge mower can be converted to a mulching mower by installing the mulcher plate as follows:

- Raise the chute deflector(8) (Fig 5).
- Align the mulcher plate with the side discharge opening. Make sure that the two alignment bumps are inside of the opening.
- Slide the tab on the top of the mulcher plate into the inside of the mower housing (Fig 5).
- Slide the tabs on the bottom of the mulcher plate into the inside of the mower housing (Fig 6).

## OPERATION

**WARNING:** Keep hands and feet away from the chute area on the cutting deck. Operation of lawnmower can result in foreign objects being thrown into the eyes, which can result severe eye damage. Always wear safety glasses or eye shields.

### Engine oil (Fig. 7)

- Make sure the engine is STOPPED.
- Remove the oil filter/oil dip stick(7), and dip it into engine (do not screw in).
- Remove oil filter/oil dip stick and check engine oil level.
- If the level is lower than minimum, add the recommended oil to the upper mark on the oil dip stick.

Recommended oil: SAE30 4 Stroke Oil

**CAUTION:** DO NOT USE non-detergent oil or 2 stroke engine oil, as it will shorten the engine's life and will not covered by warranty.

### Air filter

- Check the air filter housing for dirt or obstruction of the filter.



**WARNING:** Never run the engine without the air filter.


### Fuel

- Make sure the engine is STOPPED.
- Remove fuel cap and fill up regular unleaded petrol.
- Never use oil/petrol mixture or dirty fuel. Avoid getting dirt, dust or water in the tank.

**CAUTION:** KEEP OUT OF REACH OF CHILDREN.

### Starting engine

- Make sure the spark plug wire is connected to the spark plug.
- Starting cold: move the throttle lever(2) to the  position. (Fig 8)
- Starting hot: Use the  position if the engine is warm. (Fig 9)
- Stand behind the mower (Fig 10). Use one hand to hold the engine stop lever in the operating position as shown. Use the other hand to hold the recoil-start grip.
- Pull the starter grip lightly until resistance is felt, then pull

briskly.(Fig 11). When the engine warms up, move the throttle to the  position.

### Stopping engine

- To stop the engine, release the engine stop lever. Disconnect the wire from the spark plug to prevent the engine from starting.
- If the engine will not stop, hold a screwdriver against the spark plug and against the engine cooling fins. The spark will go to ground and the engine will stop.

### Cutting height adjustment (Fig.12)

- To adjust the cutting height, pull the lever away from mower and then move it forward or backward to select desired cutting height.
- Height of the each 4 wheels are individually adjustable, but make sure each adjuster arm is in the same position so that the mower will cut level.

**NOTE:** For rough or uneven lawns, move the height adjustment lever to higher position to avoid scalping.

## MULCHING TIPS

Mulching finely cuts the grass so that the grass can be easily recycled. Because the nutrients are returned to the soil, the lawn will need less fertilizer. To correctly mulch the lawn, follow the tips below.

- The grass must be dry. If the grass is wet, it will be difficult to cut and cause heavy clumps of grass.
- The grass must not be too tall. The maximum height to effectively cut is 4 1/2 inches. Set the height adjusters so that only the top third of the grass is cut.
- If the grass is more than 4 1/2 inches high, two mowings will be necessary. For the first mowing, set the height adjusters in the highest position. Then, lower the height adjusters for the second mowing.
- Keep a sharp edge on the blade. A blade that is not sharp will cause the ends of the grass to become brown.
- Clean the underside of the mower housing. Grass and other debris can keep the mower from working correctly.

**If the quality of cut is marginal, try the following:**

- Set the height adjusters at a higher cutting height.
- Cut the grass more frequently.
- Operate the mower at a slower ground speed.
- Overlap the cutting swaths instead of cutting a full swath with each pass.
- Mow across the marginal areas a second time.

## MAINTENANCE

**WARNING:** Be sure to disconnect and ground the engine spark plug wire before performing any repairs or maintenance.

**NOTE:** When tipping the mower, empty the fuel tank and keep the engine spark plug side up. Never tip the mower more than 90 degree and do not leave the mower tipped for any length of time. Oil can drain into the upper part of the engine causing a starting problem.

### Replace engine oil

- Place a suitable container next to the engine to catch the used oil.
- Remove the oil filler cap/dip stick and drain the oil into the container by tipping the mower toward the oil filler neck, making sure the air filter & spark plug are up high.
- With the engine in a level position, fill to the upper limit mark on the dip stick with the recommended oil. (600mL of SAE30 4 Stroke Oil)
- Reinstall the oil filter cap/oil dip stick securely.

**NOTE:** Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take



used oil in a sealed container to your local recycling centre or service station for reclamation. DO NOT throw it in the garbage, pour it on the ground or down the drain.

**CAUTION:** Running the engine with a low oil level can cause engine damage and void product warranty.

### Air filter

**IMPORTANT:** A dirty Air Filter will restrict air flow to the carburetor. To prevent carburetor malfunction, service the Air Filter regularly. Service more frequently when operating the engine in dusty areas.

**WARNING:** Never run the engine without the Air Filter inserted.

- Remove Filter Cover & Clean dirt from around filter & seal area.
- Remove the Air Filter by pulling it out of the Seal. Take care to ensure dust & dirt does not enter the seal hole when removing the Filter.
- Tap Air Filter lightly several times on a hard surface to remove excess dirt. Never try to brush the dirt off. Brushing will force the dirt into the fibers. Replace the Air Filter if it is excessively dirty.
- Insert a clean or new filter into the Seal hole.
- Refit the Filter cover by inserting the 2 tabs then rotating to the closed position.

### Spark plug

**CAUTION:** Never use a spark plug of incorrect heat range. To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

- Remove the spark plug cap and use the spark plug spanner supplied to remove the plug. Insert screw driver (or something similar) through tube to turn it.

### Deck

Underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt of other things. If the debris is allowed to accumulate, it will cause rust and corrosion, and may prevent proper mulching, discharge or bagging.

### Replacing cutting blade (Fig.13)

**CAUTION:** When removing the cutting blade, protect your hand with a pair of heavy gloves or use a heavy rag to hold the blade.

- Loosen the blade fixing bolt and the remove it with washer.
- Remove the cutting blade and adapter from the crank shaft.

**WARNING:** Periodically check the cutting blade adapter for cracks, especially if you strike a foreign object. Replace immediately if you found damage.

### Lubrication

Lubricate the wheels at least once a season with light oil (or engine oil). Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with engine oil.

**NOTE:** Do not lubricate the engine stop cable. Lubricants will damage the cable and prevent the cable from moving freely. Replace the cable if bent or damaged.

### Storage

**WARNING:** When transporting the engine keep the engine level to prevent fuel spillage. Fuel vapour or spilled fuel may ignite.

When storing for more than 3 months:

- Change the engine oil
- Remove the spark plug
- Pour a tablespoon (5-10cc) of clean engine oil into the cylinder

- Pull the recoil starter several times to distribute the oil
- Reinstall the spark plug

### CAUTION:

- If your engine will be stored with petrol in the fuel tank and carburetor, it is important to reduce the hazard of petrol vapor ignition. Select a well-ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater or clothes dryer.
- Avoid any area with a spark-producing electric motor, or
- where power tools are operated.
- If possible, avoid storage area with high humidity, as this may promote rust & corrosion.



**MAINTENANCE CHART**

Refer to the following table for routine maintenance.		Time Period					
		Before start	After finish	Refuelling	5 Hours	25 Hours	If damaged
Features	Requirements						
<b>Check Oil</b>	Check level	•					
	First Oil Change				•		
	Subsequent Oil Changes					•	
<b>Throttle lever</b>	Check operation	•					
<b>Muffler</b>	Inspect				•	•	
	Replace					•	•
<b>Spark plug</b>	Replace				•		•
<b>Air filter</b>	Check	•					
	Replace				•	•	
<b>Cylinder fins</b>	Clean				•		•
<b>All accessible fasteners</b>	Check	•					
	Retighten						•
<b>Engine mounting bolts</b>	Check & retighten				•		•


**CAUTION**
**Service more frequently when used in dusty conditions.**

— NOTE —

— NOTE —

# RYOBI POWER EQUIPMENT WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

### Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from

misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the service dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.



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## THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....  
ADDRESS OF DEALER:.....  
DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.