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Original instructions

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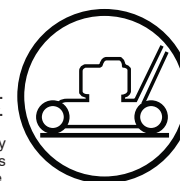
## Operator's Manual

L 421P

Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine.  
The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.



Please read the operator's manual carefully  
and make sure you understand the instructions  
before using the machine.



English

592 80 44-01

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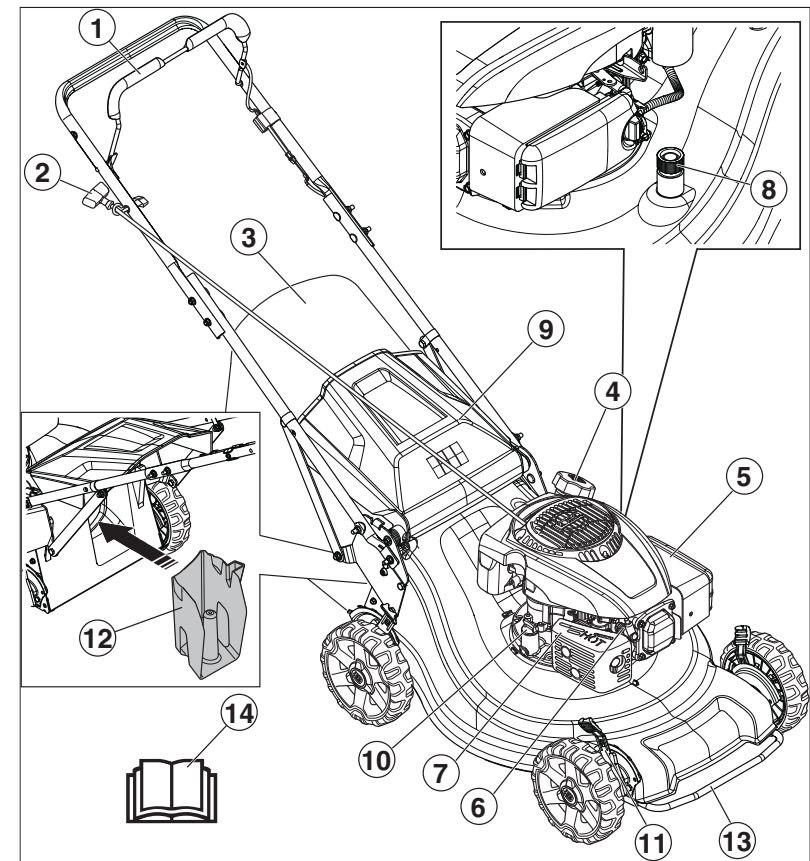
## INTRODUCTION

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### Operator's manual

The initial language of this operator's manual is English.  
Operator's manuals in other languages are translations  
from English.

## Overview



1. Engine brake handle
2. Starter rope handle
3. Grass catcher
4. Fuel tank cap
5. Air filter
6. Spark plug
7. Muffler
8. Wash-out port
9. Rear deflector
10. Engine oil cap with dipstick
11. Cutting height control
12. Mulch plug
13. Front bumper

14. Operator's manual

### Symbols on the product



Warning



Read this manual



Wear approved hearing protection.



Do not discard manual



Keep hands and feet away from rotating blades.



Keep hands and feet away from rotating blades. Do not open or remove the protective shields while the engine or motor runs.



Before and while walking rearward, look behind and down for small children, animals or other risks that can cause you to fall.



Keep hands and feet away from rotating blades.



Objects can be ejected by the blade.



Keep persons and animals at a safe distance from the work area.



Slope hazard



Risk of fire



The exhaust fumes from the engine contain carbon monoxide, an odorless, poisonous and very dangerous gas. Do not start the engine indoors or in closed spaces.



Electrical shock



Hot surface



Always stop the engine before refueling.



Oil



Fuel



Engine off



Engine on



Choke



Fast



Slow



The exhaust fumes are hot and can contain a spark which can start a fire.

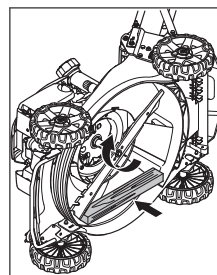


The product or packaging cannot be handled as domestic waste. The product and packaging must be submitted to an appropriate recycling station for the recovery of electrical and electronic equipment.

## Product liability

As referred to in the product liability laws, we are not liable for damages that our product causes if:

- the product is incorrectly repaired.
- the product is repaired with parts that are not from the manufacturer or not approved by the manufacturer.
- the product has an accessory that is not from the manufacturer or not approved by the manufacturer.
- the product is not repaired at an approved service center or by an approved authority.



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



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

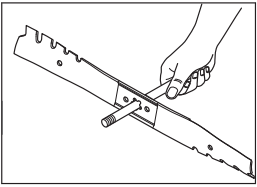
- Pull the blade around by hand and make sure it rotates freely.

## TRANSPORTATION AND STORAGE

- Keep all equipment safe during transportation to prevent damage and accidents.
- For storage, keep equipment in a lockable area away from children and persons that are not approved.
- For storage, keep the product and equipment in a dry and frost-proof area.
- When loading or moving the product, do not go more than the maximum recommended operation angle of 15 degrees.
- Empty the fuel tank by operating the product until the tank is empty.
- Drain the engine oil.
- Clean the product. For more information, see *To clean the product on page 15*.
- Tighten bolts and nuts.
- Replace or repair damaged components.
- Touch up all rusted or damaged paint surfaces. Sand lightly before painting.
- Use the correct protective cover on the product that keeps it dry. Do not use plastic because it lets condensation collect and causes corrosion on the product.

## TECHNICAL DATA

	Unit	L 421P
Gasoline capacity	quart (liters)	1.2 (1.10)
Gasoline type		Unleaded regular only
Oil type (API SG-SL)		SAE 30 (above 0°C / 32°F) SAE 5W-30 (below 0° / 32°F)
Oil capacity	ounces	18
Spark plug gap	inches (mm)	0.030 (0.76)
Spark plug type		8815
Blade bolt torque	ft lbs (Nm)	35-40 (47-54)



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

## To replace the blade

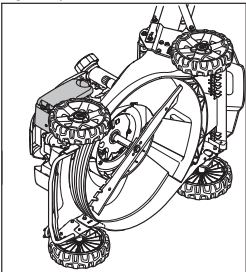


**WARNING:** Use gloves, and/or wind the blade with a heavy cloth, to prevent injury to your hands.

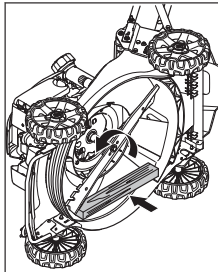


**CAUTION:** Only use a replacement blade from an approved manufacturer. Using a blade not approved by the manufacturer is dangerous and can cause damage to the product and void the warranty.

1. Always disconnect the spark plug before you do maintenance.
2. Always empty the fuel tank before you put the product on its side. Empty the fuel tank by operating the machine until the tank is empty.
3. Turn the product on its side. When the product is tilted, make sure that the air filter is always put in the highest position.



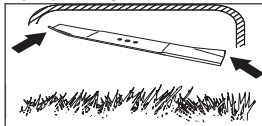
4. Use a wood block between the blade and the mower housing to prevent the blade from turning when removing the blade bolt.



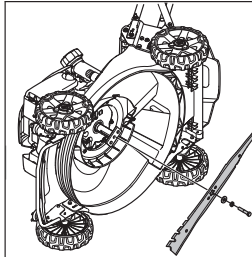
5. Remove the blade bolt by turning the bolt counterclockwise.
6. Remove the blade. Make sure that the blade adapter is not damaged. Examine the blade bolt for damage and make sure the engine shaft is not bent.

## To assemble the blade

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



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



3. Use a block of wood between the blade and product housing. Tighten the blade bolt and turn it clockwise.
4. Always tighten the bolt with a torque of 35-40 ft lbs (47-54 Nm).

## SAFETY

### Safety definitions

The definitions below give the level of severity for each signal word.



**WARNING:** Injury to persons.



**CAUTION:** Damage to the product.

**Note:** This information makes the product easier to use.

### General safety instructions



**WARNING:** Read the warning instructions that follow before you use the product.

- Use the product correctly. Injury or death is a possible result of incorrect use. Only use the product for the tasks found in this manual. Do not use the product for other tasks.
- Obey the instructions in this manual. Obey the safety symbols and the safety instructions. If the operator does not obey the instructions and the symbols, injury, damage or death is a possible result.
- Do not discard this manual. Use the instructions to assemble, to operate and to keep your product in good condition. Use the instructions for correct installation of attachments and accessories. Only use approved attachments and accessories.
- Do not use a damaged product. Obey the maintenance schedule. Only do the maintenance work that you find an instruction about in this manual. An approved service center must do all other maintenance work.
- This manual cannot include all situations that can occur when you use the product. Be careful and use your common sense. Do not operate the product or do maintenance on the product if you are not sure about the situation. Speak to a product expert, your dealer, service agent or approved service center for information.
- Disconnect the spark plug cable before you assemble the product, put the product into storage or do maintenance.
- Do not use the product if it is changed from its initial specification. Do not change a part of the product without approval from the manufacturer. Only use parts approved by the manufacturer. Injury or death is a possible result of incorrect maintenance.

- Do not breathe in the fumes from the engine. Long-term inhalation of the engine's exhaust fumes is a health risk.
- Do not start the product indoors or near flammable material. The exhaust fumes are hot and can contain a spark which can start a fire. Not sufficient airflow can cause injury or death because of asphyxiation or carbon monoxide.
- When you use this product the engine makes an electromagnetic field. The electromagnetic field can cause damage to medical implants. Speak to your physician and medical implant manufacturer before you operate the product.
- Do not let a child operate the product. Do not let a person without knowledge of the instructions operate the product.
- Make sure that you always monitor a person, with decreased physical capacity or mental capacity, that uses the product. A responsible adult must be there at all times.
- Lock the product in an area that children and unapproved persons cannot access.
- The product can eject objects and cause injuries. Obey the safety instructions to decrease the risk of injury or death.
- Do not go away from the product when the engine is on.
- The operator of the product is responsible if an accident occurs.
- Make sure that parts are not damaged before you use the product.
- Make sure that you are at minimum 15 m (50 ft) away from other persons or animals before you use the product. Make sure that persons in the adjacent area know that you will use the product.
- Refer to national or local laws. They can prevent or decrease the operation of the product in some conditions.
- Do not use the product if you are fatigued or influenced by alcohol, drugs or medicine. They can have effects on your vision, alertness, coordination or judgment.

### Safety instructions for operation

- Know the controls and the correct operation of the product before use.
- Do not let children or persons without knowledge of these instructions use the product.
- Do not operate the product while persons, especially children, or animals are near.
- Keep children away from the area to be cut and monitored by an adult that is not the operator.
- Stop the product if children enter the work area.

- Fully examine the area where the product is to be used. Remove all objects which can be ejected by the product during operation.
- Examine the blade, blade bolt, blade assembly and motor base before use for wear and damage.
- Operate the product only in daylight or in good artificial light.
- Do not operate the product in wet grass.
- Be careful near corners, bushes, trees or other objects that can prevent your view.
- Use very high caution when you reverse or pull the product in your direction.
- Do not put hands or feet near or below rotating parts. Keep clear of the discharge openings at all times.
- Stop the blade when you go across gravel surfaces.
- Stop the engine and wait until the blade stops fully before you clean the product, remove the grass catcher, or remove material from the discharge chute.
- Disengage the drive system, if installed, before you start the engine.
- Do not operate the product when you are tired, ill or under the influence of alcohol or other drugs.
- If the product has unusual vibration, stop the engine and immediately examine for the cause. Vibration is usually a warning of damage.
- Do not point ejected material in the direction of others. Do not eject material against a wall or blockage. Material may ricochet back in the direction of the operator.
- Do not operate the product without the correct guards, plates, grass catcher or other safety protective devices in position.

## Work area safety

- Remove branches, twigs, stones and other objects from the lawn before you start to cut.
- Keep persons, including children, and animals at a safe distance from the work area.
- Objects that hit against the cutting equipment can be ejected and cause damage to persons and objects.
- Do not use the product in bad weather, including fog, rain, moist or wet locations, strong winds, intense cold and risk of lightning. Doing work in bad weather can cause fatigue and dangerous conditions, such as slippery surfaces.
- Examine your work area to make sure that your control of the product cannot be prevented.
- Be careful of roots, stones, twigs, pits and ditches. High grass can conceal obstacles.
- Be careful when you go near hidden corners and objects that can prevent your view.

## Safety instructions for slopes

- Be careful when you cut on a slope. Slopes can be dangerous. A fall on a slope can cause injury.

- Cut across the face of slopes. Do not cut up and down.
- Be careful when you change direction on a slope.
- Be careful of hidden objects or holes in the lawn. Rough terrain can cause you to fall.
- Do not cut near a steep slope, drop-off, ditch or embankment. You can fall.
- Do not cut on wet grass. You can fall.
- Do not cut on terrain with more than a 15 degree slope.

## Personal protective equipment

Always use the correct personal protective equipment when you operate the product. This includes, at minimum, sturdy footwear, eye protection and hearing protection. Personal protective equipment does not erase the risk of injury but may decrease the grade of injury if an accident occurs.

- Always wear safety glasses or eye protection while you operate the product or do maintenance or repairs.
- Do not operate the product with bare feet or with open shoes. Always use heavy-duty slip-resistant boots with good ankle support while you operate the product.
- Wear heavy, long pants. Do not wear shorts, sandals or go bare foot.
- Use approved protective gloves, if necessary. For example, when attaching, examining or cleaning the blade.
- Always use approved ear protection while you operate the product. Noise for a long period can cause noise-induced hearing loss.

## Protective devices on the product

- Make sure that you regularly do the maintenance to the product.
    - The life of the product increases.
    - The risk of accidents decreases.
- Let an approved dealer or an approved service center regularly examine the product to do adjustments or repairs.
- Do not use a product with damaged protective equipment. If the product is damaged, speak to an approved service center.

## Engine brake handle

The engine brake handle stops the engine. When the engine brake handle is released, the engine stops.

To do an inspection of the engine brake, start the engine and then release the engine brake handle.

See *Maintenance schedule* on page 12 for information about when to replace the air filter.

1. Remove the air filter cover and remove the filter.
2. Clean the filter by hitting it against a flat surface. Do not use solvent with petroleum, kerosene or compressed air to clean the filter.

**Note:** Air filters in operation for a long time cannot be cleaned fully. Replace the air filter at regular intervals. Damaged air filters must always be replaced.

3. When you assemble the air filter, make sure that it fully seals against the filter holder.

## To clean the product

- Brush off leaves and grass.
- Keep finished surfaces and wheels free of gasoline, oil and unwanted material.
- Keep the top of the engine starter clear and clean of grass clippings and chaff. This helps engine air flow and extends the life of the engine.
- Clean below the product with a scraper to remove the buildup of grass and waste.
- Do not use a high pressure washer to clean the product.
- Do not flush water directly on the engine.
- Clean the air intake on the starter. Examine the starter and starter rope.
- When you clean below the product, empty the fuel tank and put the product on its side with the muffler down.



**CAUTION:** Do not clean the product with water, cleaning fluids, or solvents. Remove unwanted material on the product with a soft brush or dry cloth that does not contain metal. Water in the engine can decrease the life of the engine.

## To clean the grass catcher

- Pores in cloth grass catchers can become filled with dirt and dust during operation. This causes the grass catcher to collect less grass. To prevent this, regularly hose the grass catcher off with water and let dry before using.
- Examine the grass catcher frequently for wear or deterioration. Replace if necessary.

## To examine the tires

- Keep the tires free of unwanted material and chemicals to prevent damage to the rubber.
- Keep the tires away from stumps, stones, ruts, sharp objects and other objects which can cause damage to the tires.

## To examine the door and deflector

The rear door and rear deflector are attached between the rear wheels of the product. They decrease the risk of objects that may be ejected in the direction of the mow position of the operator.

1. Make sure that the rear door and rear deflector are not damaged.
2. Examine the rear door and rear deflector. Make sure that there are no defects that push the door to close, including cracks or broken springs.
3. Replace the rear door and rear deflector or the springs if they are damaged.

## To replace the side discharge deflector

The side discharge deflector is attached to the side discharge opening of the product. It decreases the risk of objects to eject in the direction of the mow position of the operator.

1. Make sure that the side discharge deflector is not damaged.
2. Examine the side discharge deflector. Make sure that you do not see defects, such as cracks or broken springs that push the door to close.
3. Replace the side discharge deflector or the springs if they are damaged.

## To examine the blade

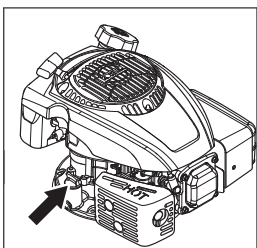


**WARNING:** Always stop the engine before you do work on the blade. The blade continues to rotate after the throttle has been released. Make sure that the blade is fully stopped and disconnect the spark plug cap before you start work.



**CAUTION:** For the best results, keep the blade sharpened. Replace damaged blades immediately. Do not use a product with a damaged blade.

- Examine the blade for cracks and other damage. A damaged blade must always be replaced.
- Always make sure that the blade is correctly ground and balanced. To examine the blade balance, use a 5/8 in (16 mm) diameter steel bolt, pin or a cone balancer. Obey the instructions included with the balancer.
- Do not use a nail to balance the blade. The lobes of the center hole are not centered.
- Move the blade onto an unthreaded part of the steel bolt or pin, and hold the bolt or pin parallel to the ground. If the blade is balanced, it stays in the horizontal position. If one of the two ends of the blade moves down, sharpen the heavy end until the blade is correctly balanced.



3. Remove the oil cap and clean the dipstick.
4. Put the dipstick in again. Make sure the oil filler cap is attached correctly.
5. If the oil level is low, put in engine oil to the top level on the dipstick.

### To add oil

1. Put the product on flat ground. Make sure the ignition lead is removed from the spark plug before you open the oil filler cap.
2. Remove the oil cap and clean the dipstick.
3. Slowly put oil down the oil fill spout. Stop in short intervals with a small quantity to examine the oil level with the dipstick.
4. Stop adding oil when you touch the FULL mark on the dipstick. Wait until the oil is stable.
5. Make sure you always tighten the oil dipstick again before you start the engine.
6. Attach the cable to the spark plug.

### To change the oil

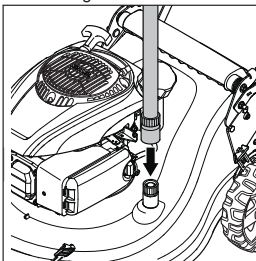
See *Maintenance schedule on page 12* for more information about when to change the oil.

1. Disconnect the spark plug cable from the spark plug.
2. Always empty the fuel tank before you put the product on its side. To empty the fuel tank, operate the machine until the tank is empty.
3. Remove the oil filler cap.
4. Put a vessel in position to collect the oil as it drains.
5. Drain the oil by tilting the engine until oil goes through the filler pipe. When the product is tilted, make sure the air filter is always in the highest position.
6. Clean spilled fuel or engine oil on the machine. Let the remaining fuel dry.
7. Slowly put oil down the oil fill spout. Stop in short intervals to examine the oil level with the dipstick. Do not fill too much.
8. Always tighten the oil dipstick again before you start the engine.
9. Connect the spark plug to the spark plug cable.

### To use the water washout feature

The water washout feature is a fitting that can quickly and easily clean below the housing. Water, grass and other unwanted material drains from below the product housing during the washout process.

1. Move the product to an area of cut grass or a different hard surface.
2. Remove the grass catcher or mulch plug from the product.
3. Close the back shield.
4. Connect a garden hose to the washout port fitting.



5. Stop the water supply and examine for leaks at the fitting.
6. If you do not see a leak, start the engine and let it run until the the product is clean below the housing.
7. Stop the engine.
8. Stop the water supply and remove the hose from the fitting.

**Note:** Do not remove the hose from the fitting while the engine is in operation. Water in the engine can decrease the life of the engine.

9. Start the engine and let it run for a full minute to remove remaining water from the product.

### Spark plug

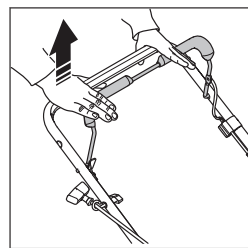


**CAUTION:** Always use the recommended spark plug type. Use of the incorrect spark plug can cause damage to the piston/cylinder.

- See *Maintenance schedule on page 12* for information about when to replace the spark plug.
- For the correct spark plug type and gap setting, see the engine manufacturer's manual for more information.

### To clean the air filter

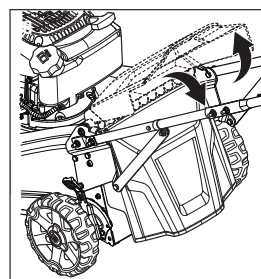
A dirty air filter can cause the engine to be damaged or not operate correctly. Do maintenance on the air cleaner more frequently in dusty conditions.



If the engine does not stop in 3 seconds, let an approved service agent adjust the engine brake.

### Rear deflector and rear door

The rear deflector and rear door decrease the risk of objects being ejected from behind the product into the operator's mow position. The rear deflector is attached between the rear wheels of your product.



- Make sure the rear door is not damaged and that no defects are in view, such as cracks or broken springs. Defects cause the door to close with force. Replace the door or springs if damaged.
- Make sure the rear deflector is not damaged and that no defects are in view, such as cracks or missing hardware. Make sure the deflector is free to rotate. Replace the deflector or hardware if damaged.

### Muffler

The muffler keeps the noise levels to a minimum and sends the exhaust fumes away from the operator.

Do not use the product if the muffler is missing or defective. A defective muffler increases the noise level and the risk of fire.



**CAUTION:** The muffler becomes very hot during and after use and when the engine operates at idle speed. Be careful near flammable materials and/or fumes to prevent fire.

### Safety instructions for maintenance



**WARNING:** Read the warning instructions that follow before you use the product.

- The exhaust fumes from the engine contain carbon monoxide, an odourless, poisonous and very dangerous gas. Do not start the engine indoors or in closed spaces.
- Before you do the maintenance on the product, stop the engine and remove the ignition cable from the spark plug.
- Use protective gloves when you do maintenance on the cutting equipment. The blade is very sharp and cuts can easily occur.
- Accessories and changes to the product that are not approved by the manufacturer, can cause serious injury or death. Do not change the product. Always use accessories that are approved by the manufacturer.
- If the maintenance is not done correctly and regularly, the risk of injury and damage to the product increases.
- Only do the maintenance as given in this owner's manual. All other servicing must be done by an approved Husqvarna service agent.
- Let an approved Husqvarna service agent do servicing on the product regularly.
- Replace damaged, worn or broken parts.

### Fuel safety



**WARNING:** Read the warning instructions that follow before you use the product.

- Do not start the product if there is fuel or engine oil on the product. Remove the unwanted fuel/oil and let the product dry.
- If you spill fuel on your clothing, change clothing immediately.
- Do not get fuel on your body, it can cause injury. If you get fuel on your body, use soap and water to remove the fuel.
- Do not start the product if the engine has a leak. Examine the engine for leaks regularly.
- Be careful with fuel. Fuel is flammable and the fumes are explosive and can cause injuries or death.
- Do not breathe in the fuel fumes, it can cause injury. Make sure that there is a sufficient airflow.
- Do not smoke near the fuel or the engine.
- Do not put warm objects near the fuel or the engine.
- Do not add the fuel when the engine is on.
- Make sure that the engine is cool before you refuel.
- Before you refuel, open the fuel tank cap slowly and release the pressure carefully.



- Do not add fuel to the engine in an indoor area. Not sufficient airflow can cause injury or death because of asphyxiation or carbon monoxide.
- Tighten the fuel tank cap fully. If the fuel tank cap is not tightened, there is a risk of fire.
- Move the product a minimum of 3 m (10 ft) from the position where you filled the tank before a start.
- Do not put too much fuel in the fuel tank.

## ASSEMBLY

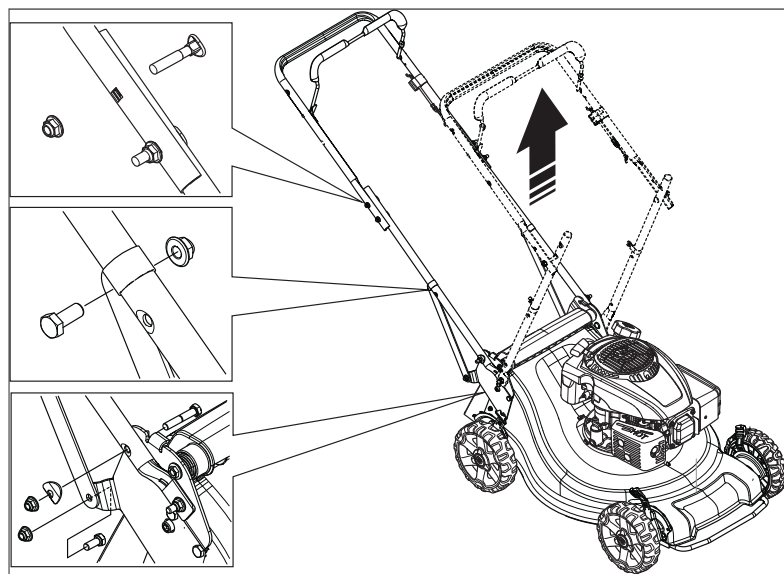


**WARNING:** Read the safety chapter before you assemble the product.

### To remove the product from the carton

1. Remove loose parts included with the product.

### To set the product in operation position



1. Lift the lower handle section to operation position.
2. Install the supplied carriage bolts in the handle and through the handle brackets. Tighten the nuts with a 1/2 in wrench.
3. Lift the upper handle section into position on the lower handle and tighten the two top knobs.
4. Discard all remaining package material from the motor control handle.

2. Cut down the two end corners of the carton and put the end panel down flat.
3. Remove all package materials.
4. Remove the product from the carton and make sure no loose parts are left in the carton.

### To set the product in transport position

1. Loosen the two handle nuts on the upper handle and remove the lower bolt and nut. Let the handle fold down to the rear.

Daily Maintenance	Before each use	After each use	Every 10 hours	Every 25 hours	Every 50 hours	Every 125 hours	Before storage
General lubrication				X			
<b>Engine</b>							
Examine engine oil level	X <sup>2</sup>						
Change engine oil					X <sup>3, 4</sup>		
Clean the air filter. Replace if necessary.				X <sup>4</sup>			
Make sure the muffler is attached correct and not damaged.				X			
Replace the spark plug						X	
Empty fuel tank or add Stabilizer							X

**Note 1:** Replace blades more often when you operate the product in sandy soil.

**Note 2:** And after 5 hours of use.

**Note 3:** Do more maintenance on the product when operating with a heavy load, at high ambient temperatures or very bad conditions.

**Note 4:** Clean more frequently in dusty conditions.

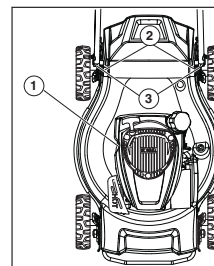
### To do a general inspection

- Check that nuts and screws are tight.
- Make sure no cables are pinched.

### General lubrication



**CAUTION:** Do not use oil or grease on plastic wheel bearings. Viscous lubricants attract dust and dirt that decreases the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry powdered graphite type lubricant as necessary.



1	Engine oil	See <i>Engine lubrication</i> on page 13.
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2	Rear door hinge	Spray lubricant
3	Handlebar mounting bolts	

### Engine lubrication

Use only high quality detergent oil rated with API service classification SG-SL. Select the correct oil SAE viscosity grade for your possible operating temperature.



**CAUTION:** Although multi-viscosity oil (5W30, 10W30 and more) improves starting in cold weather, they increase oil use when used above 0°C (32°F). Examine your engine oil level more frequently to prevent possible engine damage from low oil levels.

- Refer to the engine manufacturer's manual for oil change intervals.
- Examine the engine oil level before you start the engine and after each 5 hours of continuous operation. Always correctly tighten the oil plug before you examine the oil.

### To examine the engine oil level



**CAUTION:** Put in only 18 oz/0.5 l of oil the first time because of the remaining oil in the engine from the manufacturer's 100% quality test. When you change the oil, 20 oz (0.6 l) can possibly be necessary.

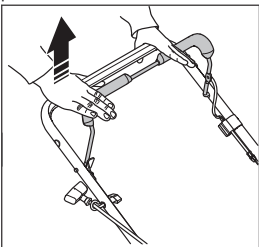
1. Put the product on flat ground. Make sure the ignition lead is removed from the spark plug before you open the oil filler cap.
2. Examine the oil level with the dipstick on the oil filler cap.



**Note:** Do not let the starter rope move quickly rearward. Do not wind the starter rope around your hand.

## To stop the product

- Release the engine brake handle to stop the product.



## To empty the grass catcher



**CAUTION:** Do not drag the bag when you empty the grass catcher to prevent wear.

## MAINTENANCE



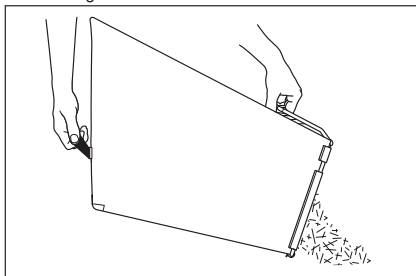
**WARNING:** Read and understand the safety chapter before you clean, repair or do maintenance on the product.

## Maintenance schedule

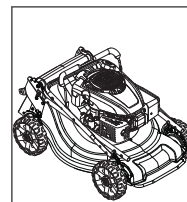
Use the maintenance schedule to see the necessary maintenance requirements of your product, and when the maintenance must occur. The intervals are calculated on average use of the product and may be different because of how frequently you use it.

Daily Maintenance	Before each use	After each use	Every 10 hours	Every 25 hours	Every 50 hours	Every 125 hours	Before storage
Tighten bolts and nuts	X						X
Clean and inspect grass catcher (if installed)	X	X					X
Examine tires	X						
Clean the product. Use a scraper to clean below the deck.		X					X
Clean below the drive cover (for power-propelled products)			X				
Examine the drive belt and pulleys (for power-propelled products)				X			
Examine the blade for damage and cracks				X <sup>1</sup>			

- Lift the grass catcher with the frame handle.



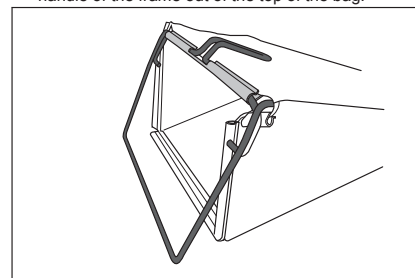
- Remove grass clippings from the grass catcher from below the handle.
- Empty grass clippings from the bag with the frame handle and the bag handle.



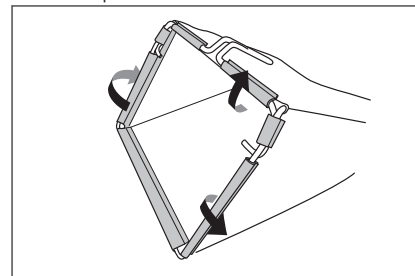
- Remove the bolts and nuts that attach the lower handles to the handle brackets.
- Pivot the full handle assembly forward in a stable position on the top of the product.

## To assemble the grass catcher

- Attach the grass catcher frame to the grass bag with the rigid part of the bag on the bottom. Keep the handle of the frame out of the top of the bag.

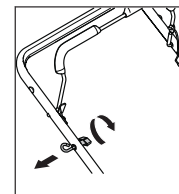


- Attach the grass bag to the frame with the quick-action clips.

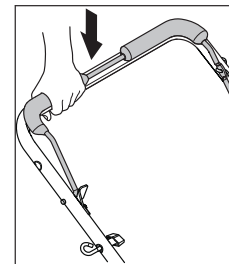


## To install the starter rope handle

- Loosen the T-knob.



- Hold the engine brake handle against the upper handle.



- Hold the starter rope handle. Slowly pull until the starter rope can move into the loop of the rope guide.
- Tighten the T-knob.

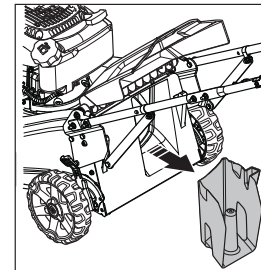
## To change the product to bagging mode

Rear bagging mode collects grass clippings in the grass catcher.

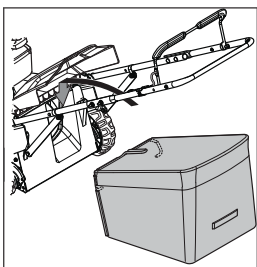


**CAUTION:** Do not operate the product without the rear door closed or the approved grass catcher in position. Do not try to operate the product with the rear door removed or open.

- Lift the rear door and remove the mulch plug.



- Lift the rear door and put the grass catcher frame hooks on the rear door pivot.

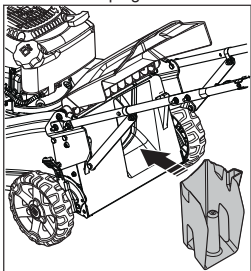


3. Release the rear door and put it on top of the grass bag frame.
4. Remove the side discharging deflector, if installed, and let the side discharge guard close. Make sure that the side discharge door is tightly closed against the product.

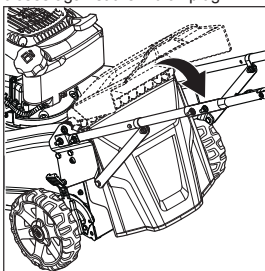
### To change the product to mulching mode

The mulching mode of the product makes grass clippings smaller. The grass clippings then fall onto the lawn and scatter across the grass. Mulched grass biodegrades quickly to give nutrients for the lawn.

1. Lift the back shield and remove the grass bag, if it is installed.
2. Put the mulch plug into the collector channel.



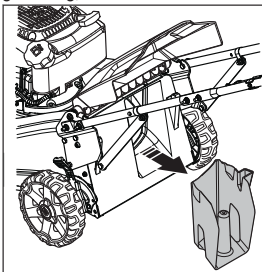
3. Let the back shield close and make sure it tightly closes against the mulch plug.



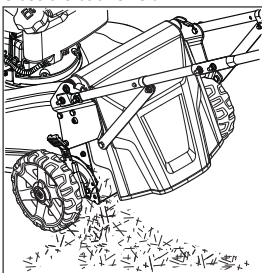
### To change the product to side discharge mode

Rear bagging discharges material to the left of the product during operation. You may experience bogging of the motor and decreased operation time when you cut a large quantity of grass. Change the product to side discharge mode to increase performance and operation time.

1. Lift the back shield and remove the mulch plug or grass bag, if installed.



2. Close the back shield.

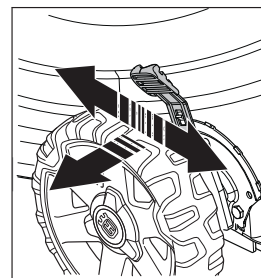


### To set the cutting height

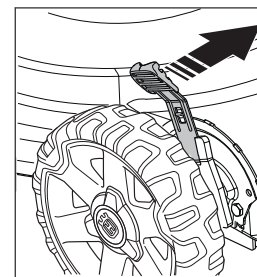
The cutting height can be adjusted to 9 (1-9) different positions. Lift the wheels for a low cut and lower the

wheels for a high cut. The medium position is best for most lawns.

The adjuster lever is spring loaded.



1. Squeeze the height adjuster lever in the direction of the wheel.



2. Move the wheel up or down for your cutting requirements.
3. Set the same height at all four corners.

## OPERATION



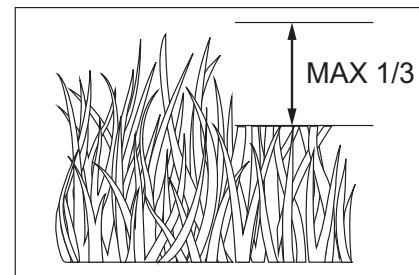
**WARNING:** Read and understand the safety chapter before you operate the product.

### Before you start the product

- Keep persons and animals away from the work area.
- Do daily maintenance. See *Maintenance schedule on page 12*.
- Make sure the ignition lead fits correctly on the spark plug.
- Add oil or gasoline, if necessary. See *To add oil on page 14*.

### Basic cutting procedure

- Always cut with a sharp blade for the best results. A blade that is not sharp cuts unevenly and lets the grass become yellow on the surface of the cut.
- Do not cut more than 1/3 of the length of the grass. This specially applies during dry periods. Cut first with the cutting height set high. Then examine the result and lower to an applicable height. If the grass is too long, operate slowly and cut two times, if it is necessary.



- For very heavy cutting, decrease the width of the cut by making an overlap of the cut path and cutting slowly.
- Cut in different directions each time to prevent stripes in the lawn.
- Regularly hose the grass catcher with water and let dry before use. Pores in cloth grass catchers can become filled with dirt and dust with operation. The grass catcher will then collect less grass.
- The side discharging mode of your product is the best cutting mode. If you try to cut a large quantity of grass and the product does not operate correctly, or has decreased operation time, change the product to side discharging mode for better performance and operation time.

### To do a manual start on the product

The engine brake handle must be held against the handlebar when the engine is started.

1. Go behind the machine.
2. Hold the starter rope handle and pull quickly.