

FOREWORD

You have just purchased a Honda pedestrian-controlled lawnmower and we thank you for your confidence in us.

This manual has been written to familiarize you with your lawnmower, to enable you to use it in the best possible conditions and to carry out its maintenance.

Our aim is to make you benefit to the full from technological advances, from new equipment and materials and from our experience. This is why we regularly make improvements to our models. Thus, the specifications and information contained in this manual may be modified without prior notice and without obligation to update it.

If you have a problem, or if you have any questions concerning the lawnmower, contact your supplying dealer or authorized Honda dealer.

Keep this manual handy so you can refer it at any time. If you sell the lawnmower, be sure that the manual accompanies it.

We recommend that you read the guarantee policy to fully understand your rights and responsibilities. The guarantee policy is a separate document provided by your dealer.

No reproduction, even partial, may be made of this publication without prior written authorisation.

SAFETY INSTRUCTIONS

For your own safety and operating comfort, it is highly recommended that you read this manual in full.

Pay attention to these symbols and their meaning:



Indicates a high risk of severe personal injury or death if instructions are not followed.

CAUTION:

- Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Source of useful information.



Your lawnmower, other property, or the environment can be damaged if you don't follow instructions.

The purpose of these messages is to help prevent damage to your lawnmower, other property, or the environment.

DESCRIPTION OF THE CODES USED IN THIS MANUAL

HRN536C	VKEA	VYEA
Self-propelled with variable speed transmission	•	•
Cutting-means brake	•	
Rotostop		•

FRAME AND ENGINE SERIAL NUMBER

Record the frame and engine serial numbers (page 3) in the space below. You will need these numbers when ordering parts and when making technical or warranty inquiries.

Frame serial number: _____

Engine serial number: _____

Date of purchase: ____/____/____

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OWNER'S MANUAL

(Original instructions)

HRN536C

Pedestrian-controlled lawnmower



Service & Support



<https://www.hondappsv.com/HME/>

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ENGLISH

FRANÇAIS

DEUTSCH

NEDERLANDS

ITALIANO

SVENSKA

SLOVENČINA

SAFETY INSTRUCTIONS

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Indicates a high risk of severe personal injury or death if instructions are not followed.

CAUTION:

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NOTE: Source of useful information.



This sign means that you must take care during certain operations. Refer to the safety instructions on the following pages, to the point(s) indicated in the box.

TRAINING

- A1. Read the instructions carefully. Be familiar with the controls and the proper use before using the equipment. Know how to stop the engine rapidly.
- A2. Use the lawnmower for the purpose it is intended for, that is mowing and collecting grass. Any other use could be dangerous or damage the equipment.
- A3. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations may restrict the age of the operator.
- A4. Never mow when people, especially children or pets are nearby. Never use the machine in cases of fatigue or illness of the user, or after consumption of medications, drugs, alcohol or dangerous substances which might interfere with his ability regarding reflexes and concentration. Never operate the machine if there is a risk of adverse weather such as lightning or a storm, stop operation.
- A5. Keep in mind that the owner or user is responsible for accidents or hazards occurring to other people or their property.
- A6. Never attempt to modify the mower. It can cause an accident as well as damage to the mower. Tampering with the engine voids the EU type-approval of this engine.
 - Do not connect an extension to the muffler.
 - Do not modify the intake system.
 - Do not adjust the governor.
- A7. The machine is equipped with safety devices that must never be modified or removed, otherwise the warranty may be void and the manufacturer released from any liability. Always check that the safety devices work before using the machine.

PREPARATION

- B1. When using the machine, always wear safety shoes that are strong and non-slip and long trousers. Do not use the machine with bare feet or wearing open shoes. Avoid wearing chains, bracelets or baggy clothes with loose parts or with lacing or neck ties. Long hair must be tied back. Always wear an anti-noise helmet.
- B2. Thoroughly inspect the area where the equipment is to be used and remove all objects which may be thrown by the machine (stones, branches, wires, bones, etc...).
- B3. **WARNING** - Petrol is highly flammable.
 - Store fuel in containers specifically designed for this purpose.
 - Refuel outdoors only, before starting the engine and do not smoke while refuelling or handling fuel.
 - Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
 - If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours are dissipated.
 - Replace all fuel tanks and container caps securely.
 - Before tipping the lawnmower to maintain the cutting means or drain oil, remove fuel from tank.
- B4. Replace faulty silencers.
- B5. Before use, always visually inspect the machine, especially to see that the cutting means, cutting-means bolts and cutting-means assembly are not worn or damaged. Replace worn or damaged cutting means and cutting-means bolts in sets to preserve balance.

OPERATION

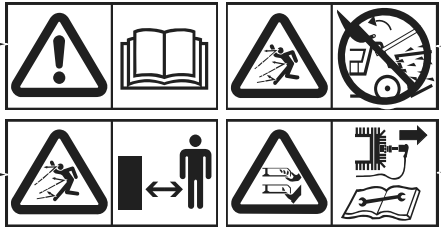
- C1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- C2. Mow only in daylight or in good artificial light. Make sure to comply with legal regulations which may vary from one region to another.
- C3. If there is a risk of adverse weather such as lightning or a storm, stop operation.
- C4. Avoid operating the equipment in wet grass, where possible.
- C5. While mowing, always keep the safety distance to the cutting means, which is provided by the handle length.
- C6. Do not run. Do not let yourself be pulled by the lawnmower.
- C7. Always be sure of your footing on slopes. Mow across the face of slopes, never up and down.
- C8. Keep in mind that the operator or user is responsible for any accidents or unexpected events that may occur to other persons or their property. The user is responsible for checking on possible risks due to the ground to be worked on, and for taking all precautions necessary for ensuring his own safety and that of others, in particular on sloping ground, rough, slippery or unstable terrain, or near holes, ditches or banks.
- C9. Do not mow slopes of more than 20° (36%).
- C10. Use extreme caution when pulling the lawnmower towards you.
- C11. Stop the cutting means if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.
- C12. Never operate the lawnmower with defective guards or cutting-means enclosures, or without safety devices such as discharge cover and/or grass catchers.
- C13. Do not change the engine governor settings or overspeed the engine.
- C14. Disengage all cutting-means control (models equipped with Rotostop) and drive clutch (self-propelled models) before starting the engine.
- C15. Start the engine carefully according to instructions and with feet well away from the cutting means.
- C16. Do not tilt the lawnmower when starting the engine. Start the lawnmower on a level surface, free of high grass or obstacle.
- C17. Keep hands and feet away from the rotating parts. Do not start the engine when standing in front of the discharge opening.
- C18. Never pick up or carry a lawnmower while the engine is running.
- C19. Stop the engine and disconnect the spark plug cap in the following cases:
 - Before any operation under the cutting-means enclosure or the discharge chute.
 - Before checking, cleaning or working on the lawnmower.
 - After striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the lawnmower again.
 - If lawnmower starts to vibrate abnormally. Check immediately the cause of the vibration and perform the necessary repair.
- C20. Stop the engine in the following cases:
 - Whenever you leave the lawnmower unattended.
 - Before refuelling.
- C21. Stop the cutting means (models equipped with Rotostop) or the engine in the following cases:
 - When installing or removing the grass catcher.
 - Before adjusting the cutting height.
- C22. Reduce the throttle setting during engine shut-down. Close the fuel shut-off valve by turning the fuel shut-off valve.
- C23. Using any attachments other than those recommended in this manual may cause damage to your lawnmower, and such damage will not be covered by your guarantee.
- C24. **CAUTION**
The levels for noise and vibration indicated in this manual are the maximum values for using the machine. The use of an unbalanced cutting means, an excessive speed of movement and a lack of maintenance have a significant effect on sound emissions and vibration. It is therefore necessary to take preventive measures to eliminate all possible damage due to high noise levels, and stresses due to vibrations; please ensure that the machine is well maintained, wear an anti-noise helmet. Take breaks during the work.

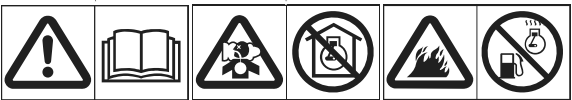
MAINTENANCE AND STORAGE

- D1. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition. Regular maintenance is an essential aid to user's safety and retaining a high level of performance.
- D2. Never store the equipment with petrol in the tank inside a building when vapours may reach an open flame, spark or high temperature source.
- D3. Allow the engine to cool before storing in any enclosure.
- D4. To reduce the fire hazard, keep the lawnmower, especially the engine and silencer, the petrol storage area as well, free of grass, leaves, or excessive grease.
Do not leave containers of grass cuttings in or near a building.
- D5. If the fuel tank has to be drained, this should be done outdoors, with a cold engine.
- D6. Check the grass catcher frequently for wear or deterioration.
- D7. Do not use the machine with worn or damaged parts.
Parts must be replaced, not repaired. Replace worn or damaged parts with Honda genuine parts.
Cutting means must always bear the mark Honda and the reference number.
Non equivalent quality parts may damage the machine and be prejudicial to your safety.
- D8. Wear thick gloves when removing or installing the cutting means or when cleaning the cutting-means enclosure.
When tightening or loosening the cutting-means screws, use a wooden block to prevent the cutting means from rotating.
- D9. Always make sure the correct balance of the cutting means when sharpening.

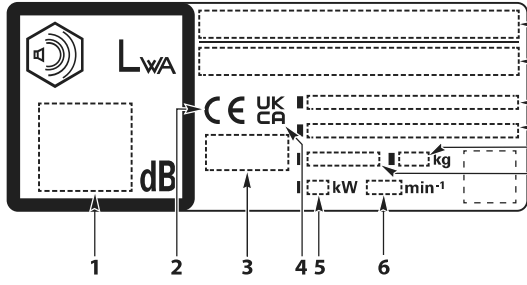
SAFETY STICKERS

This sticker warns you of potential hazards that can cause serious injury. Carefully read meaning. If sticker comes off or becomes hard to read, contact your servicing dealer for a replacement.

Letter	Meaning
A	
	<ol style="list-style-type: none"> Warning: Read the owner's manual before using the mower. Risk of projections: Keep third persons away from the area during use. Risk of cuts. Rotating cutting means: Do not put hands or feet inside the cutting-means enclosure. Disconnect the spark plug cap before performing any operation of maintenance or repairs. Do not operate without either discharge guard or grass catcher in place.

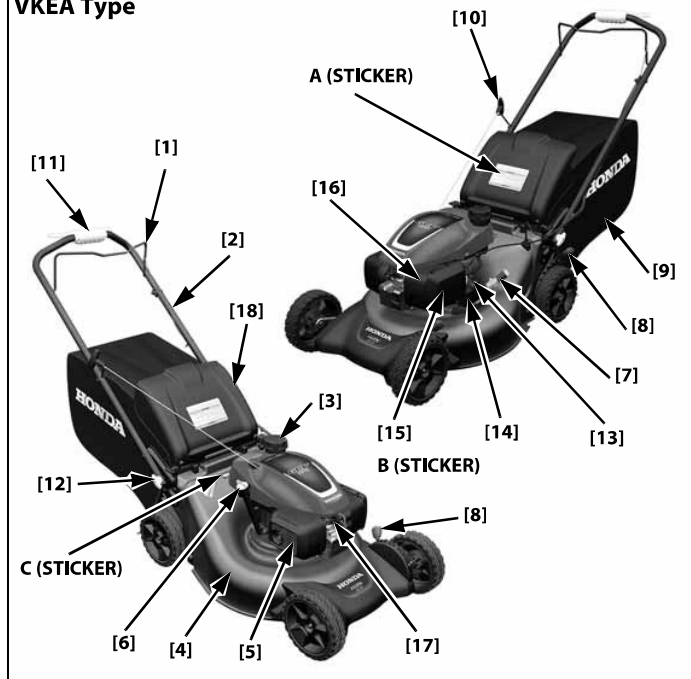
B	
	<ol style="list-style-type: none"> Warning: Read the owner's manual before using the mower. The engine emits toxic carbon monoxide. Do not run in an enclosed area. Petrol is highly flammable. Stop the engine before refueling.

IDENTIFICATION OF MACHINE

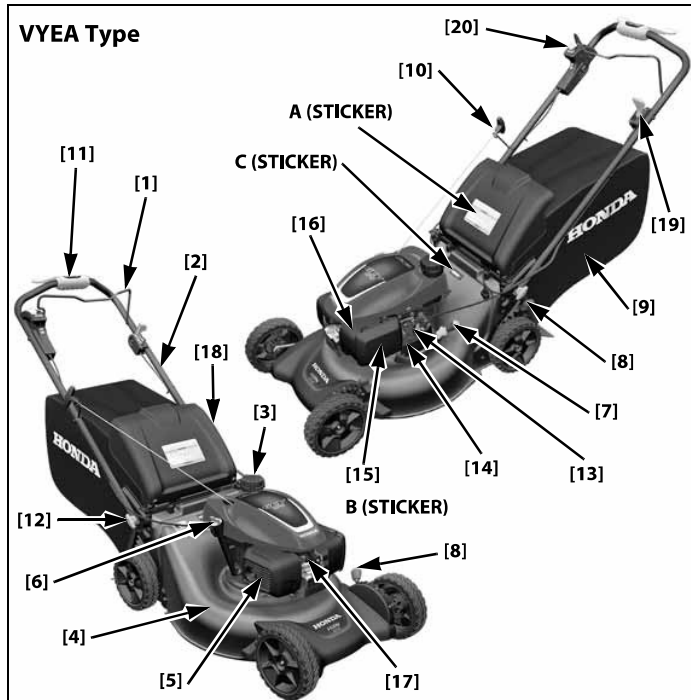
Letter	Meaning
C	
	<ol style="list-style-type: none"> Sound power level CE marking Optional conformity mark UK conformity assessed mark (for United Kingdom) Nominal power in kilowatts Recommended engine speed in min⁻¹ Month and year of manufacture Mass in kilograms (with empty tanks) Frame serial number (Type and serial number of Declaration of Conformity) Model - Type Authorized representative name and address Name and address of the manufacturer

GENERAL DESCRIPTION

VKEA Type



VYEA Type



1	Cutting-means control lever (Starts and stops the cutting means)	11	Smart Drive control
2	Handlebar	12	Handlebar adjust knob (2)
3	Fuel tank cap	13	Fuel valve
4	Cutting-means enclosure	14	Engine serial number
5	Muffler	15	Air cleaner
6	Oil filler cap	16	Carburetor
7	Clip Director knob	17	Spark plug cap
8	Cutting height adjustment lever (2)	18	Discharge guard
9	Grass catcher	19	Throttle Lever (VYEA)
10	Recoil starter	20	Roto-Stop Button (VYEA)

PREPARATION AND CHECKS BEFORE USE

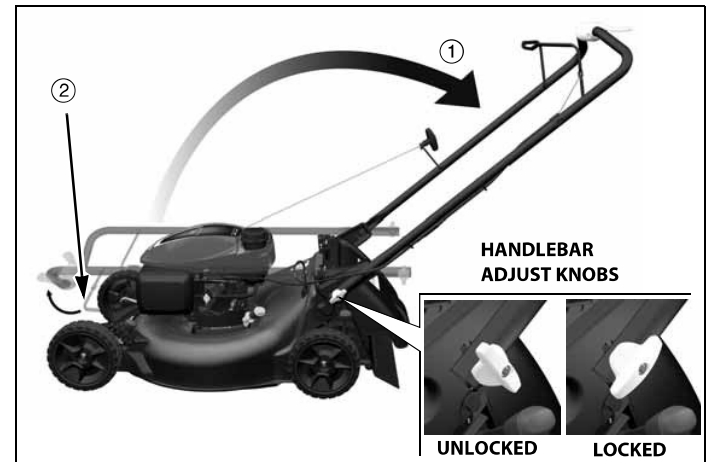


UNPACKING

Remove all the cardboard from around the handlebar.

ASSEMBLY OF THE HANDLE

Turn the handlebar adjust knobs into the unlocked position, and then carefully raise the handlebar into the mowing position ①. The VKEA type requires the cutting-means control lever ② to be pulled against the handlebar.



Align the adjust knobs with one of the two holes on each handle stay. Setting the adjust knobs in the lowest holes raises the handlebar to its highest position.

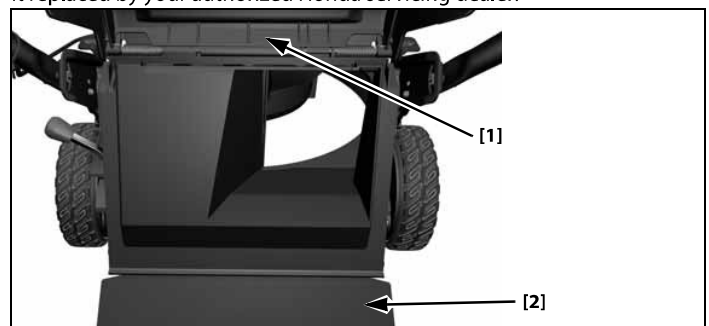
Turn the handlebar adjust knobs 90 degrees into the locked position, making sure both sides are positioned at the same height.

NOTICE

Do not allow the control cables to become caught, pinched, or kinked while unfolding the handlebar. The cables or engine control system may be damaged.

CHECKING THE REAR SHIELD

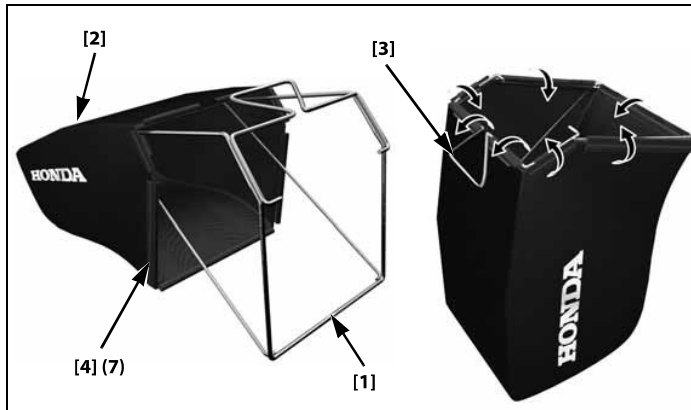
During normal use the rear shield is subject to deterioration and wear. Remove the grass catcher and raise the discharge guard [1] to check the rear shield [2] for cracks or tears. If the rear shield is excessively worn, have it replaced by your authorized Honda servicing dealer.



CHECKING THE GRASS CATCHER



1. Install the assembled frame [1] into the fabric grass catcher [2], keeping the grass catcher handle [3] exposed.
2. Secure the seven plastic clips [4] to attach the fabric catcher to the frame.



A lawnmower works like a vacuum cleaner; it blows air through the catcher, which traps the grass clippings. Always empty the grass catcher before it becomes filled to the limit of its capacity. Grass catcher performance will diminish after the catcher becomes about 90% filled. Also, the catcher is easier to empty when it is not packed full.

Inspection

During normal use, the grass catcher material is subject to deterioration and wear.

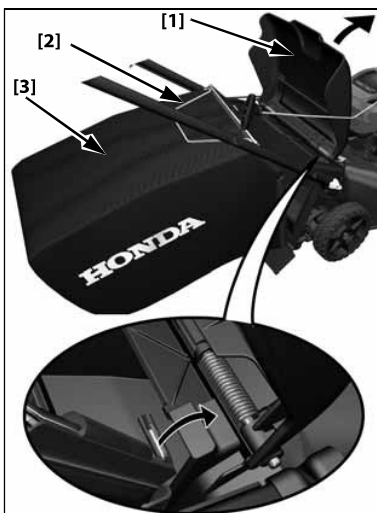
NOTICE

Frequently inspect the grass catcher for tears, holes, and excessive wear. Check for necessary replacement. Make sure the new catcher meets the original specifications.

If the grass catcher needs replacement, you can remove and install a catcher yourself (page 14).

Installation

1. Raise the discharge guard [1], and use the grass catcher handle [2] to hook the grass catcher [3] onto the cutting-means enclosure as shown.
2. Release the discharge guard to secure the grass catcher.



Removal

1. Raise the discharge guard, grasp the grass catcher handle, and remove the grass catcher.
2. Release the discharge guard.
3. When the grass catcher is clear of the discharge guard, you can lift it through the handlebar opening, or you can remove it to the rear of the lawnmower below the handlebar.

CHECKING FUEL LEVEL



This engine is certified to operate on unleaded petrol with a research octane rating of 91 or higher.

Fuel specification(s) necessary to maintain the performance of the emissions control system: E10 fuel referenced in EU regulation.

We recommend refueling after each use to minimize the air present in the fuel tank.

Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Never refuel the mower inside a building where petrol fumes may reach flames or sparks.

You may use regular unleaded petrol containing no more than 10% ethanol (E10) or 5% methanol by volume. In addition, methanol must contain cosolvents and corrosion inhibitors. Use of fuels with content of ethanol or methanol greater than shown above may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system. In addition, ethanol is hygroscopic, which means it attracts and retains water in the fuel system. Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above are not covered by warranty. Using the fuel indicated above is necessary to maintain the performance of the emission control system.

If your equipment will be used on an infrequent or intermittent basis, (more than 4 weeks before next use) please refer to the *Fuel* section of the STORAGE chapter (page 16) for additional information regarding fuel deterioration.

WARNING

Petrol is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

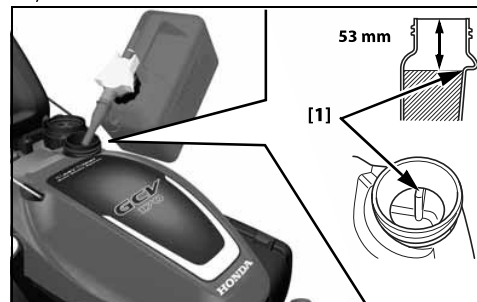
- Stop the engine and allow to cool.
- Keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

Never use stale or contaminated petrol or an oil/petrol mixture. Avoid getting dirt or water in the fuel tank.

NOTICE

Fuel can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under warranty.

Remove the tank cap and check the fuel level. Refill the tank up to the upper limit [1] if the fuel level is low. Refuel carefully to avoid spilling fuel. Do not overfill; there should be no fuel in the filler neck.



After refueling, tighten the fuel tank cap securely.

Move the mower at least 3 meters away from the fueling source and site before starting the engine.

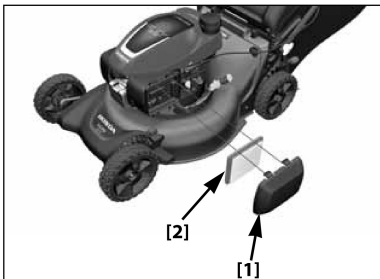
Fuel Storage Container

Store your petrol in a clean, plastic, sealed container approved for fuel storage. Close the vent (if equipped) when not in use, and store the container away from direct sunlight. If it will take more than 3 months to use the fuel in the container, we suggest adding a fuel stabilizer to the fuel when you fill the container.



CHECKING THE AIR CLEANER

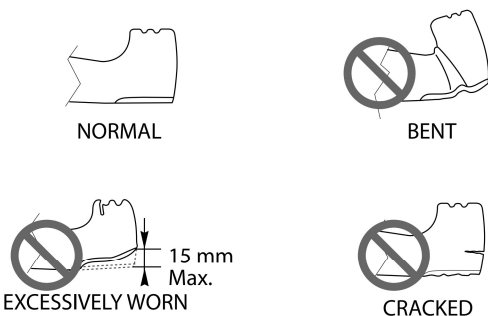
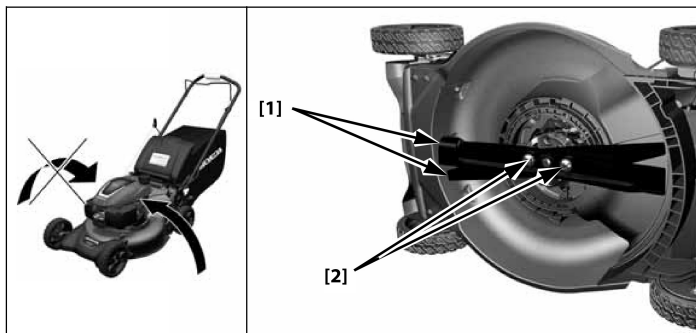
Remove the cover [1]. Make sure the filter [2] is clean and in good condition. A dirty air filter will restrict air flow to the carburetor, reducing engine performance. Refer to page 11 for air cleaner service.



CHECKING CUTTING MEANS CONDITION



1. Move the fuel valve to the OFF position (page 9) and disconnect the spark plug cap from the spark plug (page 12).
2. Tilt the mower to the right so the fuel cap is up. This will help prevent fuel leakage, motor oil seeping into the air filter, and hard starting.
3. Inspect the cutting means [1] and cutting-means bolts [2] for damage, cracks, and excessive wear, rust, or corrosion.



WARNING

A worn, cracked, or damaged cutting means can break, and pieces of the damaged cutting means can become dangerous projectiles.

Thrown objects can cause serious injury.

Inspect the cutting means regularly, and do not operate the mower with a worn or damaged cutting means.

A dull cutting means can be sharpened, but a cutting means that is worn out, bent, cracked, or otherwise damaged must be replaced. A worn or damaged cutting means can break, causing cutting means pieces to be thrown from the mower.

When a cutting means needs sharpening or replacement, take the lawnmower to an authorized Honda dealer. Or, if you have a torque wrench, you can remove and install the cutting means yourself.

Check that the cutting means bolts are tight (page 13).

ADJUSTING CUTTING HEIGHT



There are two cutting height adjustment levers found on the left-hand side of the lawn mower. The lever [1] on the left front wheel adjusts the height of both front wheels, and the lever [2] on the left rear wheel adjusts the height for both rear wheels. Both levers can be adjusted to one of seven settings. The actual height of cut grass will vary with lawn and soil conditions.

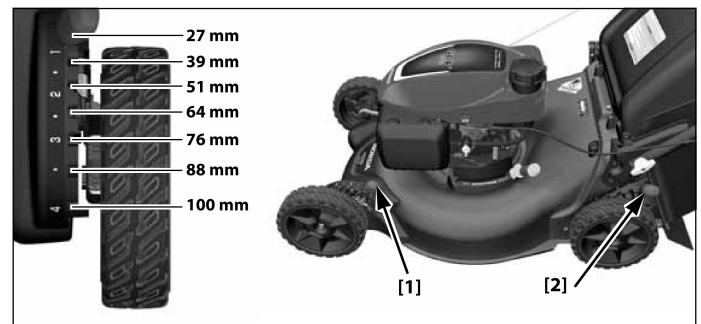
Be sure the engine is not running when adjusting the cutting height.

Move the front and rear adjustment levers to the same position, forward for tall grass and rearward for short grass.

Check the cutting-means enclosure cutting height settings, and be sure that both adjustment levers [1] [2] are set to the same cutting height position.

To adjust the cutting height, move the rear cutting height adjustment lever first. Grasp the handlebar and lift the mower up slightly, and then pull the adjustment lever toward the wheel and move it into the desired height. Adjust the front cutting height adjustment lever to match the rear height setting.

If you are not sure what cutting height to select, start with a high setting and check the appearance of the lawn after mowing a small area. Then readjust the cutting height if necessary.



Consult a local nursery or lawn and garden center for cutting height recommendations and advice about specific types of grasses and growing conditions in your area.

If you look closely, you'll see that most grass has stems and leaves. If you cut off the leaves, you'll scalp the lawn. Let the grass recover between mowings. Your mower will work better, and your lawn will look better.

If your grass gets too tall, cut it once at the highest cutting height setting, and then mow again in 2 or 3 days. Don't take off more than one third of total grass height in any one mowing, or brown patches may develop.



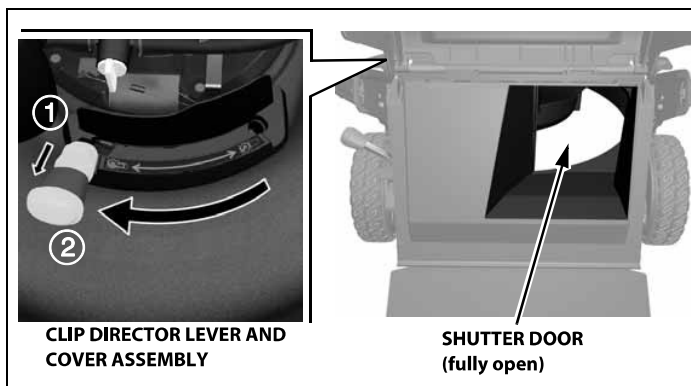
LONG ENOUGH



TOO SHORT

Catching or Rear Discharge

Release the lock ① and then move the Clip Director lever into the CATCH position ②.



To discharge clippings to the rear, remove the grass catcher and leave the Clip Director lever in the CATCH position.



STARTING AND STOPPING THE ENGINE



MOWING PRECAUTIONS

Before operating the mower for the first time, please review *SAFETY INSTRUCTIONS* (page 2) and *PREPARATION AND CHECKS BEFORE USE* (page 4).

Even if you have operated other mowers, take the time to become familiar with how this mower works, and practice in a safe area until you build up your skills.

For your safety, avoid starting or operating the engine in an enclosed area such as a garage. Your mower's exhaust contains poisonous carbon monoxide gas that can collect rapidly in an enclosed area and cause illness or death.

FREQUENCY OF USE

If your equipment will be used on an infrequent or intermittent basis, (more than 4 weeks before next use) please refer to the *Fuel* section of the *STORAGE* chapter (page 16) for additional information regarding fuel deterioration.

STARTING THE ENGINE

1. Turn the fuel valve to the ON (open) position (page 9).

2. **VKEA Type:**

Pull back on the cutting-means control lever [1] and hold it against the handlebar.

The lever must be against the handlebar to start the engine. The cutting means start to rotate when the lever is against the handlebar and the recoil starter grip is pulled.

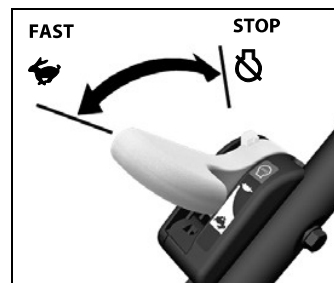


VVEA Type:

Move the throttle lever to FAST position.

3. Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.

VKEA Type: Continue to hold the cutting-means control lever against the handlebar; the engine stops when the cutting-means control lever is released.



To ensure easy restarting and maximum performance from the Auto Choke System, start mowing as soon as the engine starts and allow the engine to run for at least three minutes before stopping the engine.

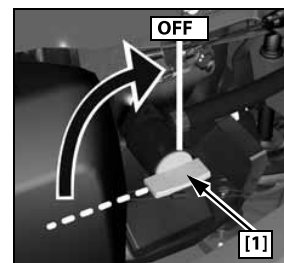
STOPPING THE ENGINE

1. **VKEA Type:** Release the cutting-means control lever to stop the engine and cutting means rotation.

VVEA Type: Release the cutting-means control lever to stop the cutting means rotation, and then move the throttle lever to the STOP position.

2. When the mower is not in use, turn the fuel valve [1] to the OFF position.

3. If your equipment will not be used for 3 to 4 weeks, we recommend running the engine's carburetor out of fuel. You can do this by leaving the fuel valve OFF, restarting the engine and running it out of fuel. See "STORAGE" on page 15 for periods of inactivity that exceed 4 weeks.



OPERATING HINTS AND TIPS

USING THE LAWNMOWER AT HIGH ALTITUDES

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your mower at altitudes above 610 meters, have an authorized Honda dealer perform this carburetor modification.

Even with carburetor modification, engine power will decrease about 3.5% for each 300 meter increase in altitude. The effect of altitude on power will be greater than this if no carburetor modification is made.

NOTICE

When the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at altitudes below 610 meters with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your authorized Honda dealer return the carburetor to original factory specifications.

SAFE MOWING PRACTICES

For your safety, keep all four wheels on the ground, and be careful to avoid losing your footing and your control of the mower. Keep a firm grip on the handlebar, and walk, never run, with the mower. Be very careful when mowing uneven or rough ground.

If stuck, do not kick or shove the mower with your foot. Use the handlebar to control the mower.

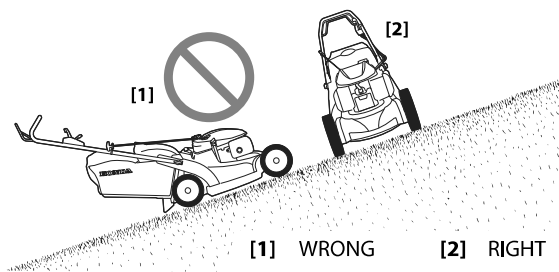
WARNING

The cutting means are sharp and spin at high speed.

If you come in contact with a spinning cutting means, it will cut you severely and can amputate fingers and toes.

- Wear protective footwear.
- Keep your hands and feet away from the cutting-means enclosure while the engine is running.
- Stop the engine before performing any adjustment, inspection, or maintenance.

Slopes



Mow across slopes, not up and down. Avoid steep slopes (more than 20° (36%)), and be careful when changing direction. Mowing on a slope when the grass is damp or wet could cause you to slip, fall, and lose control of the mower.

Obstacles

Use the side of the mower to cut close to large obstacles, such as fences or walls.

Release the Smart Drive control to disengage the drive when mowing around trees and other obstacles. Push the mower around obstacles for better directional control. Be careful when mowing over obstacles embedded in the lawn, such as sprinkler heads, paving, edging, etc. Avoid anything that sticks up above the surface of the lawn.

If the cutting means hits something, or if the mower starts to vibrate, stop the engine immediately and check for damage. Striking objects may damage the cutting means, bend the crankshaft, and/or break the cutting-means enclosure or other components. Vibration usually indicates serious trouble.

WARNING

A worn, cracked, or damaged cutting means can break, and pieces of the damaged cutting means can become dangerous projectiles.

Thrown objects can cause serious injury.

Inspect the cutting means regularly, and do not operate the mower with a worn or damaged cutting means.

The warranty does not cover parts damaged by collision.

Gravel and Loose Objects

Gravel, loose stones, and landscaping material can be picked up by the mower and thrown away with enough force to cause serious personal injury and/or property damage. The best way to prevent potential injury from thrown objects is to release the cutting means control lever to stop the cutting means before reaching areas with gravel, loose stones, or landscaping material.

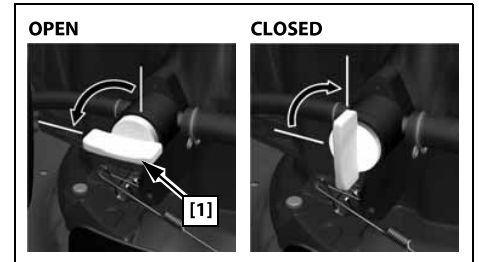
OPERATING THE CONTROLS FOR

MOWING



Fuel Valve

The fuel valve [1] opens and closes the connection between the fuel tank and the carburetor.



Cutting-mean Control System

VKEA Type

The cutting-means control lever [1] must be pulled back against the handlebar to start and run the engine. The cutting means start to rotate when the lever is pulled back against the handlebar and the recoil starter grip is pulled.



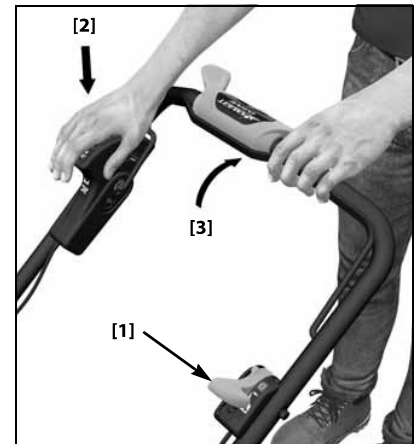
Continue to hold the cutting-means lever fully against the handlebar. This will keep the engine and cutting means rotating smoothly and prevent premature wear to the cutting-means control system.

Release the cutting-means control lever to stop the engine and stop cutting means rotation whenever you need to leave the mower.

VYEA Type

To start cutting-means rotation, make sure the engine is running and the throttle lever [1] is in the FAST position.

1. Push down and **hold** the Roto-Stop® button [2].
2. Pull the cutting-means control lever [3] quickly against the handlebar allowing the engine to bring the cutting means up to full speed. Then release the Roto-Stop button.



Continue to hold the cutting-means lever fully against the handlebar to maintain cutting means rotation. The cutting-means control lever must always be fully engaged or fully released. Do not partially engage the lever.

Release the cutting-means control lever to stop cutting means rotation. Always release the cutting-means control lever before starting the engine to prevent the cutting means from rotating.

Smart Drive Control

With the engine running and the cutting means rotating, slowly push the Smart Drive control to propel the mower forward.

Ground speed will increase as more pressure is applied to the Smart Drive control.

After maximum ground speed is obtained, applying additional pressure will not further increase ground speed. Apply only enough pressure to achieve the desired speed.

Release the Smart Drive control to disengage the drive when mowing around trees and other obstacles. Push the mower around obstacles for better directional control.

Ground speed varies with terrain, grass height, slope, and grass catcher weight. Moving the Smart Drive control allows you to maintain the desired ground speed under constantly changing mowing conditions.

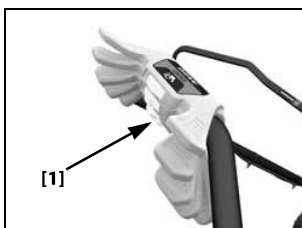
Release the Smart Drive control to disengage (stop) the rear wheels.

Adjusting the Smart Drive Control

The Smart Drive control can be adjusted up or down into any one of five positions for operator comfort.

Do not attempt to adjust the position of the Smart Drive control while the mower is in motion.

Slide the multi-position adjuster [1] to the left to unlock the control, move the Smart Drive control up or down into the most comfortable position, and then release the multi-position adjuster and allow it to engage.

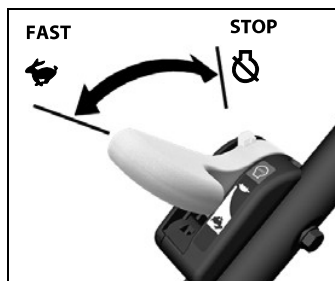


Throttle Lever

VEEA Type

For best cut quality, always mow with the throttle lever in the FAST position. When the cutting means rotate at the preset fast speed, they create a strong fan action that lifts and cuts grass more efficiently.

Do not try to increase the preset FAST engine speed; the cutting means could fracture and come apart.



MOWING TIPS

When to Mow

Most grasses should be mowed when they have grown 12 ~ 25 mm above their recommended height.

More frequent mowing is required for mulching than for catching. For best results, you may need to mow the lawn twice a week during the growing season.

Cutting Width

For an even lawn finish, overlap each mowing swath by a few centimeters. If the grass is very tall or thick, use more overlap and a narrower mowing swath.

Cutting Means Speed

The cutting means must spin very fast to cut properly.

If engine speed drops, it could mean the engine is being overloaded by the cutting means trying to cut too much grass. Mow a narrower swath, move the mower slower, or raise the cutting height.

Cutting Means Sharpness

A sharp cutting means cuts cleanly. A dull cutting means tears the grass, leaving shredded ends that turn brown. When your cutting means doesn't cut cleanly anymore, have it sharpened or replaced.

Dry Grass

If the ground is too dry, mowing will stir up a lot of dust. Besides being unpleasant to work in, too much dust will clog the carburetor air filter.

If dust is a problem, water your lawn the day before mowing. Mow when the grass is dry to your touch, but the soil is still moist.

Wet Grass

Wet grass is slippery and can make you lose your footing. Also, wet grass clippings will clog the cutting-means enclosure and collect in clumps on the lawn. Always wait for wet grass to dry before mowing.

Fallen Leaves

When equipped with the grass catcher, your mower can be used to pick up fallen leaves for disposal. If using the mower to collect large amounts of fallen leaves, and not for mowing, adjust the front cutting height adjustment lever so the front of the cutting-means enclosure is one or two settings higher than the rear.

If you want to mulch fallen leaves into your lawn, don't let the leaf cover get too deep before you begin. For best results, start mulching while grass still shows through the leaf cover. In places where fallen leaves completely cover the grass, remove the leaves by raking, or install the grass catcher, so your mower can pick them up for disposal.

Clogged Cutting-means Enclosure

Before clearing a clogged cutting-means enclosure, stop the engine and turn the fuel valve to the OFF position. With the spark plug cap disconnected, tilt the mower so the air cleaner side is up.

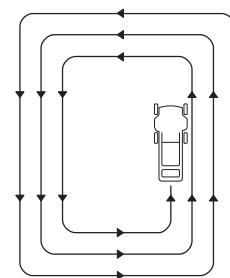
Clear a clogged enclosure with a stick, not your hands.

Mowing Patterns

Your Honda mower will work most efficiently if you use the following mowing patterns as much as possible. Cutting-means enclosure and equipment design, and the direction in which the cutting means rotate, cause these mowing patterns to give the best results.

Mulching

Use a counterclockwise mowing pattern when the Clip Director lever is in the MULCH position. If the lawn has an irregular shape, or many obstacles, divide it into sections where you can use counterclockwise mowing patterns.



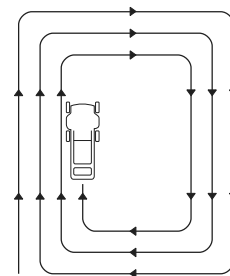
MULCHING PATTERN

Catching

Use a clockwise mowing pattern. This will give the best Clip Director and catching performance, leaving the least amount of clippings on the lawn.

Rear Discharge Mowing

Remove the grass catcher and close the discharge guard. Move the Clip Director lever to the CATCH setting and begin mowing in a clockwise mowing pattern. If the lawn has an irregular shape, or many obstacles, divide it into sections.



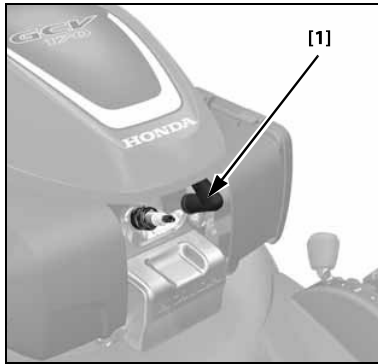
CATCHING & REAR-DISCHARGE PATTERN

MAINTENANCE



WARNING

To avoid the lawnmower starting accidentally, pull off the spark plug cap [1] before carrying out maintenance work.



THE IMPORTANCE OF MAINTENANCE

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution and ensure the emissions performance of the engine continues to be met.

To help you properly care for your mower, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Honda technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your mower under unusual conditions, consult an authorized Honda dealer for recommendations applicable to your individual needs and use.

Remember that your servicing dealer knows your mower best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new, Honda Genuine parts or their equivalents for repair and replacement.

WARNING

Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

MAINTENANCE SAFETY

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

WARNING

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed.

Always follow the procedures and precautions in this owner's manual.

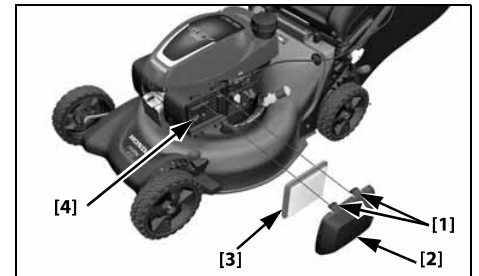
AIR CLEANER MAINTENANCE

A properly maintained air filter will help prevent dirt from entering your engine. Dirt entering the carburetor can be drawn into small passages in the carburetor and cause premature engine wear. These small passages can become blocked, causing starting or running problems. It is recommended to always use a genuine Honda air filter specified for your engine to ensure it seals and performs as designed. You will need to clean the filter more frequently if you operate the engine in very dusty conditions.

NOTICE

Operating the engine without an air filter, or with a damaged filter, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered by the warranty.

1. Press down on the air cleaner cover [1] tabs, and then remove the cover [2].
2. Remove the filter [3] from the air cleaner housing [4].
3. Inspect the filter; replace if damaged.
4. Clean the filter by tapping the filter several times on a hard surface to remove dirt, or blow compressed air (not exceeding 2 bar/29 psi) through the filter from the inside. Never try to brush off dirt; brushing will force dirt into the fibers.
5. Wipe dirt from the inside of the air cleaner housing and cover, using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.
6. Reinstall the filter and cover.



ENGINE OIL CHANGE

Drain the oil while the engine is warm. Warm oil drains quickly and completely.



1. Turn the fuel valve OFF. This will reduce the possibility of fuel leakage (page 9).
2. Wipe the oil filler area clean, and then remove the oil filler cap/dipstick.

3. Place a suitable container next to the mower to catch the used oil, and then tilt the mower on its right side. The used oil will drain through the filler neck. Allow the oil to drain completely.



Please dispose of used motor oil and the containers in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it on the ground or pour it down a drain.

4. Fill with the recommended oil (page 7).

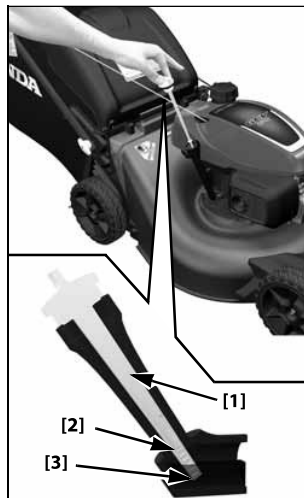
Refill Amount:
0.35~0.40 L

Do not overfill. Measure the oil level as shown below.



5. After changing the engine oil and before starting the engine, check the oil level with the mower on a level surface:

- a. Remove the filler cap/dipstick [1].
- b. Wipe the dipstick clean.
- c. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
- d. If the oil level is below the low level mark [3], add oil to reach the high limit mark [2] on the dipstick. Do not overfill. If the engine is overfilled, the excess oil may get transferred to the air cleaner housing and air cleaner filter.



NOTICE

Running the engine with a low oil level can cause engine damage.

- e. Screw in the filler cap/dipstick securely.

CHECKING THE SPARK PLUG

Required spark plugs:

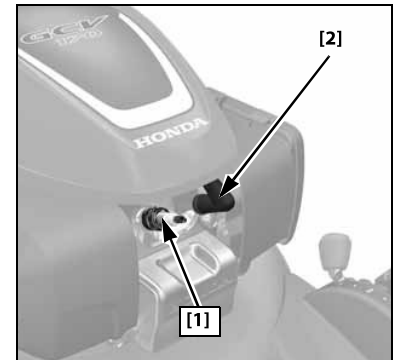
NGK - BPR5ES

NOTICE

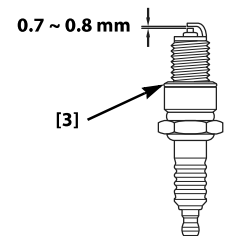
Incorrect spark plugs can cause engine damage.

For good performance, the spark plug [1] must be properly gapped and free of deposits.

1. Disconnect the spark plug cap [2], and remove any dirt from around the spark plug area.
2. Remove the spark plug with a spark plug wrench.



3. Inspect the spark plug. Replace it if the electrodes are worn or if the insulator is cracked or chipped.
4. Measure the spark plug electrode gap with a suitable gauge. The gap should be 0.7 ~ 0.8 mm. Correct the gap, if necessary, by carefully bending the side electrode.
5. Install the spark plug carefully, by hand, to avoid cross-threading.
6. After the spark plug seats, tighten with a spark plug wrench to compress the washer.



If reinstalling the old spark plug, tighten 1/8 to 1/4 turn after the spark plug seats.

If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer [3].

TORQUE: 20 N·m

NOTICE

A loose spark plug can overheat and damage the engine. Overtightening the spark plug can damage the threads in the cylinder head.

7. Install the spark plug cap on the spark plug.

MAINTENANCE OF SPARK ARRESTER (OPTIONAL EQUIPMENT)

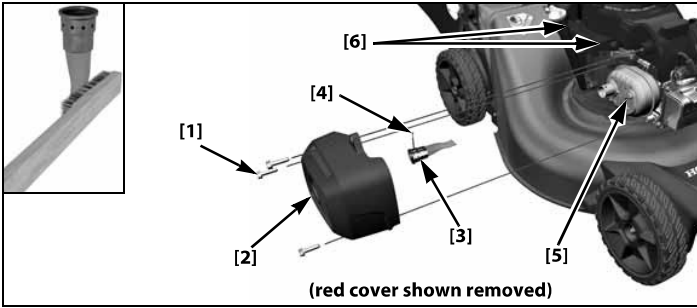


In Europe and other countries where machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

The spark arrester must be serviced every 100 hours to keep it functioning as designed.

1. Allow the engine to cool.
2. Unclip the two red top cover tabs [6] on the muffler side of the engine, and then slightly lift the red top cover up to expose the upper muffler shield bolt.
3. Remove the three bolts [1] from the muffler shield [2] using a 10 mm socket wrench.
4. Remove the muffler shield [2].
5. Remove the set screw [4].
6. Remove the spark arrester [3] from the muffler [5].
7. Check for carbon deposits on the spark arrester and the exhaust port. Brush carbon deposits away. Be careful to avoid damaging the spark arrester screen.
8. Install the spark arrester into the muffler.

- Install the muffler shield on the engine, tighten the three bolts securely, and then reattach the red top cover.



CUTTING MEANS REMOVAL AND INSTALLATION

If you remove the cutting means for sharpening or replacement, you will need a torque wrench for installation. Wear heavy gloves to protect your hands.

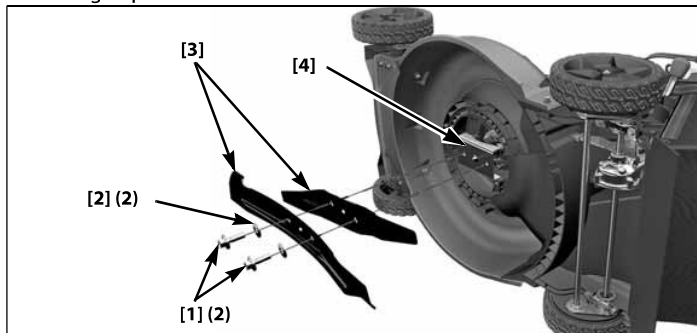
Cutting means SHARPENING: To avoid weakening the cutting means, or causing imbalance or poor cutting, the cutting means should be sharpened by trained staff at an authorized Honda dealer.

Cutting means REPLACEMENT: Use Honda Genuine replacement cutting means or their equivalent.



Removal

- Turn the fuel valve OFF and disconnect the spark plug cap.
- Tilt the mower to the right so the fuel cap is up. This will help to prevent fuel leakage, motor oil seeping into the air filter, and hard starting.
- Remove the cutting-means bolts [1] and special washers [2] with a 14 mm (6 point) socket wrench. Wear thick leather gloves and hold the cutting means [3] with your hand to prevent the them from turning when removing the bolts. Remove the cutting means.
- Inspect the cutting-means holder (VKEA) or Roto-Stop assembly (VYEA) [4] and cutting means mounting surface for damage. If damage is found or the cutting means have impacted a hard object, replace the damaged parts.



Installation

- Clean dirt and grass from around the cutting means mounting area.
- Install both cutting means [3] using the two cutting means bolts [1] and special washers [2] as shown. Be sure to install the special washers with the concave side toward the cutting means and the convex side toward the head of the bolt.

⚠ WARNING

Operating this mower with only one cutting means will result in an improperly seated cutting means that can be thrown from the mower and seriously hurt or kill someone.

Always install both cutting means as a set.

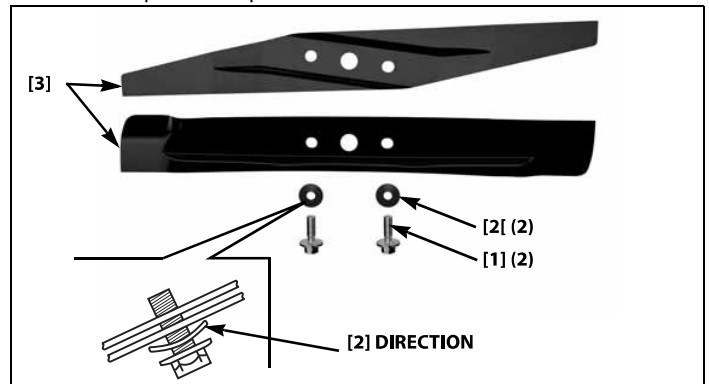
⚠ WARNING

If the cutting-means bolts are not torqued properly, the cutting means could loosen and be thrown from the mower.

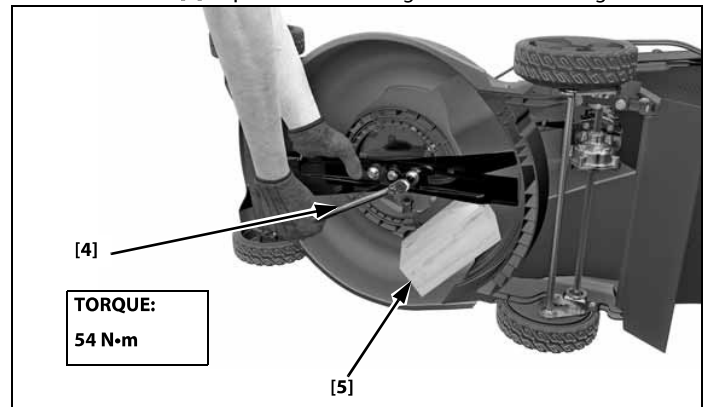
Cutting means thrown from the mower could seriously hurt or kill someone.

Ensure the cutting-means bolts are torqued properly.

The cutting-means bolts and washers are specially designed for this application. When replacing the bolts and washers, use only Honda Genuine replacement parts.



- Tighten the cutting-means bolts with a torque wrench [4]. Use a wooden block [5] to prevent the cutting means from turning.



Cutting-means bolt torque: 54 N·m

If you do not have a torque wrench, have an authorized Honda dealer tighten the cutting-means bolts before you use the mower. If the cutting-means bolts are overtightened, they could break. If the cutting-means bolts are not tightened enough, they could loosen or come out. In either case, it would be possible for the cutting means to fly off while you are operating the mower.

Cutting-means Mounting Bolt Inspection

Inspect the cutting-means bolts for any signs of damage or looseness. If they are damaged, they must be replaced.

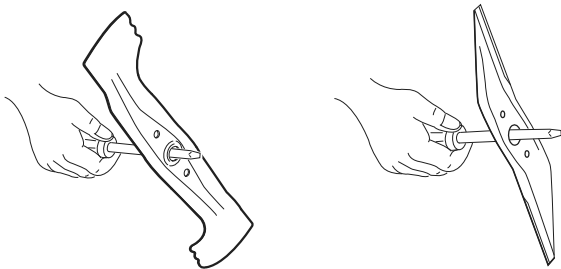
If they appear loose, a torque wrench must be used to accurately tighten the cutting-means bolts to the required torque. If you do not have a torque wrench, take your lawnmower to an authorized dealer to have the bolts replaced or tightened.

Use only Honda Genuine cutting-means bolts and special washers, since they are specifically designed for this purpose. Replacement part numbers are on page 17.

Inspect washers and bolt heads for looseness and damage.



Cutting-means Replacement



CAUTION:

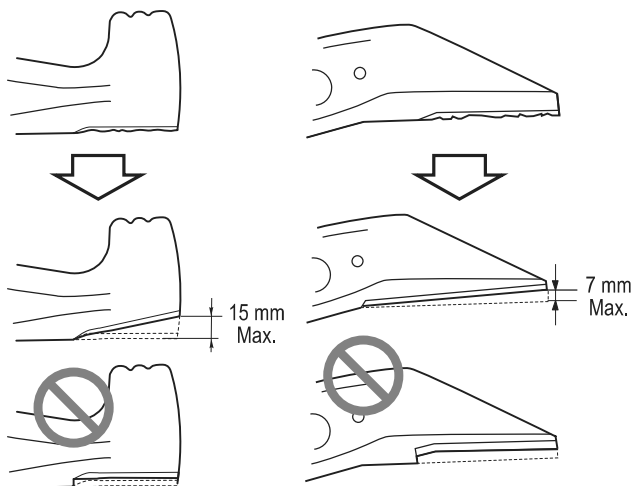
- Cutting-means balance is critical to proper lawnmower performance. Replace any cutting means that is damaged or out of balance.
- Use only genuine Honda replacement cutting means.

Cutting-means Sharpening

CAUTION:

- To avoid weakening the cutting means, causing it to become unbalanced or getting a bad quality of cut, the cutting means should be sharpened by competent personnel at your servicing dealer.

1. Sharpen the cutting means cutting edges with a file. File the top side only. Maintain the original bevel for a fine cutting edge. File both ends evenly to maintain cutting-means balance.
2. After sharpening, test the cutting-means balance using a screwdriver as shown above. If either side dips slightly below the horizontal, file that side. Replace the cutting means if it dips excessively.



GRASS CATCHER CLEANING AND REPLACEMENT

Cleaning

Wash the grass catcher with a garden hose, and allow it to dry completely before use; a wet grass catcher will clog quickly.

Replacement

Replace a worn or damaged grass catcher with a Honda replacement part or its equivalent.



OPERATION CHECK OF THE CUTTING-MEANS CONTROL

VKEA Type only:

Start the engine outdoors. Release the cutting-means control lever; the engine should stop quickly. If the engine does not stop quickly, take the mower to an authorized Honda servicing dealer for repair.

MAINTENANCE SCHEDULE

Perform at every indicated month/year or operating hour interval, whichever comes first.

Item	Intervention	Frequency					
		Before each use	First month or 5 hours	First 25 hours	Every 6 months or 50 hours	Every year or 100 hours	Every 2 years or 150 running hours
Engine oil	Check	o					
	Change		o		o ¹	o ¹	o ¹
Air filter	Check	o					
	Clean			o ¹	o ¹	o ¹	
	Replace						o
Spark plug	Check / Adjust					o	
	Replace						o
Spark arrester ³ (if equipped)	Clean					o	o
Fuel tank ²	Clean					o	o
Valve clearance ²	Adjust					o	o
Fuel lines ²	Check (replace if necessary)	Every 2 years					
Grass catcher	Check	o					
Cutting-means	Check	o					
Operation of the cutting-means control	Check	o				o	o
Rear shield	Check	o					
Cutting-means bolts	Check	o					
Smart Drive cable ²	Adjust			o	o	o	o
Roto-Stop cable (VYEA) ²	Adjust			o		o	o
Throttle cable (VYEA) ²	Adjust			o		o	o
Pinion gears ²	Grease					o	o
Transmission axle bearings ²	Check						o

1. Service more frequently when used in dusty areas.
2. These items should be serviced by an authorized Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.
3. In Europe and other countries where machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

Failure to follow this maintenance schedule could result in non-warrantable failures or reduction in performance and emissions noncompliance.

TROUBLESHOOTING

ENGINE WILL NOT START

Possible Cause	Correction
Fuel valve OFF	Turn the fuel valve ON (page 9).
Out of fuel	Refuel (page 7).
Throttle in wrong position (VYEA only)	Move throttle lever to FAST position (page 10).
Bad fuel; mower stored without treating the petrol, or refueled with bad petrol	Refuel with fresh petrol (page 5).
Spark plug faulty, fouled, or improperly gapped	Gap or replace the spark plug (page 12).
Spark plug wet with fuel (flooded engine)	Dry and reinstall the spark plug.
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the mower to an authorized Honda servicing dealer or refer to the shop manual for repair.

LOSS OF POWER

Possible Cause	Correction
Grass is too tall to cut	Raise the cutting height (page 7), cut a narrower swath, use a slower ground speed, or cut more frequently.
Throttle not set to FAST (VYEA only)	Move the throttle lever to FAST (page 10).
Cutting-means enclosure is clogged	Clean out the cutting-means enclosure (page 10).
Air cleaner is clogged	Clean or replace the air cleaner
Bad fuel; mower stored without treating the petrol, or refueled with bad petrol	Refuel with fresh petrol (page 12).
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the mower to an authorized Honda servicing dealer or refer to the shop manual for repair.

VIBRATION

Possible Cause	Correction
Grass and debris lodged under the cutting-means enclosure	Clean out the cutting-means enclosure (page 10).
Cutting means loose, bent, damaged, or unbalanced by improper sharpening	Tighten loose cutting-means bolts (page 13). If cutting means are found to be bent or damaged, take the lawnmower to an authorized Honda servicing dealer for inspection.
Mechanical damage, such as a bent crankshaft	Take the mower to an authorized Honda servicing dealer or refer to the shop manual for repair.

MOWING AND CATCHING PROBLEMS

Possible Cause	Correction
Mower is moving too fast for lawn conditions	Apply less pressure to the Smart Drive control or push slower.
Cutting height adjustment levers set at different positions	Set both levers at the same cutting height position (page 7).
Grass catcher overfilled or clogged	Empty the grass catcher. Wash the grass catcher if it is clogged with dirt (page 14).
Cutting-means enclosure is clogged	Clean out the cutting-means enclosure (page 10).
Cutting means dull, worn, or damaged	Sharpen or replace the cutting means if necessary (page 13).

STORAGE

Proper storage is essential for keeping your lawnmower troublefree and looking good. The following steps will help protect the mower from rust and corrosion, and make the engine easier to start when you use the lawnmower again.



CLEANING

Engine

Clean the engine by hand, using a rag and a brush.

NOTICE

Using a garden hose or pressure washing equipment can force water into the air cleaner. Water in the air cleaner will soak the paper filter and can enter the carburetor or engine cylinder, causing damage. Water contacting a hot engine can cause damage. If the engine has been running, allow it to cool for at least half an hour before cleaning.

Cutting-means Enclosure

To assure a longer lifetime and more efficient operation, the underside of the lawnmower must be kept clean and free of grass debris by cleaning with a brush and scraper. After use the lawnmower must be cleaned thoroughly before being stored.

Before cleaning the underside of the cutting-means enclosure, allow the engine to cool and be sure the fuel valve is in the OFF position. Disconnect the spark plug cap. Rest the mower on its right side so the fuel filler cap is up. This will help prevent fuel leakage and hard starting due to carburetor flooding. Wear heavy gloves to protect your hands from the cutting means.

Grass catcher

Remove the catcher from the mower, and wash it with a garden hose or pressure washing equipment. Allow the catcher to dry completely before storage.

After the lawnmower is clean and dry, touch up any damaged paint and coat other areas that may rust with a light film of oil.

FUEL

NOTICE

Depending on the region where you operate your equipment, fuel formulations may deteriorate and oxidize rapidly. Fuel deterioration and oxidation can occur in as little as 30 days and may cause damage to the carburetor and/or fuel system. Please check with your servicing dealer for local storage recommendations.

Petrol will oxidize and deteriorate in storage. Old petrol will cause hard starting, and it leaves gum deposits that can clog the small passages in the fuel system. If the petrol in your mower deteriorates during storage, you may need to have the carburetor and other fuel system components, serviced or replaced.

The length of time that petrol can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as petrol blend, your storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Fuel deterioration problems may occur within a few months, or even less if the petrol was not fresh when you filled the fuel tank.

If you keep a container of petrol for refueling, be sure that it contains only fresh petrol.

If it will take more than 3 months to use the fuel in your storage container, we suggest adding a fuel stabilizer to the fuel when you fill the container.

Short Term Storage (30-90 days)

If your lawnmower will not be used for 30 to 90 days, we recommend the following to prevent fuel-related problems:

1. Add fuel stabilizer following the manufacturer's instructions.
When adding a fuel stabilizer, fill the fuel tank with fresh petrol. If only partially filled, air in the tank will promote fuel deterioration during storage.
Note:
 - All stabilizers have a shelf life and their performance will deteriorate over time.
 - Fuel stabilizers will not reconstitute stale fuel.
2. After adding a fuel stabilizer, run the engine outdoors for 10 minutes to be sure that treated petrol has replaced the untreated petrol in the carburetor.
3. Stop the engine and turn the fuel valve to the OFF position.
4. Start the engine and continue to run the engine until it stops from the lack of fuel in the carburetor fuel bowl. Running time should be less than 3 minutes.

Long Term or Seasonal Storage (greater than 90 days)

Start the engine and allow it to run long enough to empty all the petrol from the entire fuel system (including the fuel tank). Do not allow petrol to remain in your engine for more than 90 days of inactivity.

The WARRANTY does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

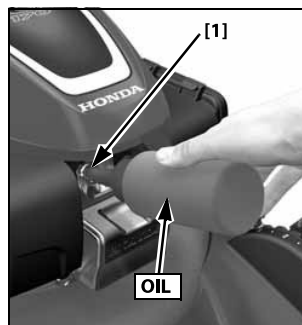
ENGINE OIL

Change the engine oil (page 12).

ENGINE CYLINDER

If the mower is to be stored for more than 3 months, remove the spark plug (page 12). Pour 5 ~ 10 cc of clean engine oil into the cylinder [1]. Pull the starter grip several times to distribute the oil in the cylinder. Reinstall the spark plug.

Pull the starter grip slowly until resistance is felt, then return the starter grip gently. This will close the valves so moisture cannot enter the engine cylinder.



PLACING IN STORAGE

Since your mower 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. Also avoid any area with a spark-producing electric motor, or where power tools are operated.

If possible, avoid storage areas with high humidity, because that promotes rust and corrosion.

Place the mower with its wheels on a level surface. Tilting can cause fuel or oil leakage. The handlebar can be folded for compact storage, shown below.

With the engine and exhaust system cool, cover the mower to keep out dust. A hot engine and exhaust system can ignite or melt some materials. Do not use sheet plastic as a dust cover. A nonporous cover will trap moisture around the mower, promoting rust and corrosion.

REMOVING FROM STORAGE

Check your mower as described in PREPARATION AND CHECKS BEFORE USE (page 4).

If the cylinder was coated with oil during storage preparation, the engine will smoke briefly at startup. This is normal.

TRANSPORT

BEFORE LOADING



If the engine has been running, allow it to cool for at least 15 minutes before loading the mower on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some materials.

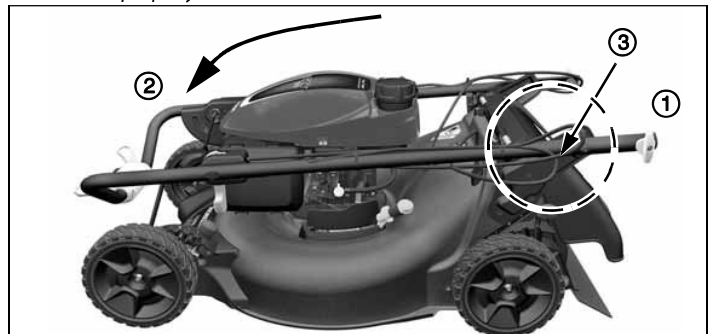
Turn the fuel valve to the OFF position (page 9). This will prevent carburetor flooding and reduce the possibility of fuel leakage.

HANDLEBAR FOLDING

1. Remove the grass catcher. You can place it on top of the engine, with the catcher opening to the front.
2. Support and hold the handlebar.
3. Unlock the handlebar adjust knobs ① and fold the handlebar forward ② into the storage position.

NOTICE

Do not allow the control cables ③ to become caught, pinched, or kinked while folding the handlebar down into the storage position. The cables or engine control system may be damaged causing the lawnmower to not function properly.



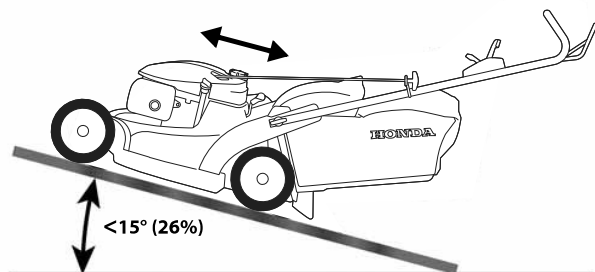
LOADING AND UNLOADING

Position the mower so all four wheels are on the bed of the transport vehicle. Tie the mower down with rope or straps, and block the wheels. Keep the tie-down rope or straps away from the controls, adjustment levers, cables, and the carburetor.

NOTICE

To prevent losing control of or damaging the mower, do not use the drive system when going up or down a loading ramp.

1. Turn the fuel valve to the OFF position.
2. Use a suitable loading ramp. Adjust the loading ramp so that it is inclined at an angle of less than 15° (26%). If a loading ramp is not available, two people should lift the mower on and off the transport vehicle while keeping the mower level.



USEFUL INFORMATION

FIND AN AUTHORIZED DEALER

Please refer to page 19.

CURRENT PARTS, OPTIONAL ATTACHMENT AND CONSUMABLES

To buy one of the original parts listed below, or any other part, please contact an authorized Honda dealer.

Item	Part Number	Notes
Air Cleaner	17211-Z8B-901	Paper
Spark Plug	98079-55846	NGK (brand) BPR5ES
Cutting Means:		
Lower	72511-VR8-M00	Always use an upper and lower cutting means as a set.
Upper	72531-VR8-M00	
Cutting-means Bolt (2)	90105-960-710	2 required, 10 x 20 mm
Bolt Washer (2)	90502-VG3-000	2 required
Wheel/tire	44710-VR8-N00	Front
	42710-VR8-N00	Rear

WARNING

For your safety, it is strictly prohibited to install any other attachment than the ones listed above and especially designed for your lawnmowers' model and type.



TECHNICAL SPECIFICATIONS

MODEL	HRN536C1	
TYPE	VKEA	VYEA
DESCRIPTION CODE	MCHF	
FUNCTION	Cutting of grass	

GENERAL

Dimensions L x W x h	1 550 x 575 x 1 035 mm	
Dry weight	36 kg	40 kg
Cutting width	530 mm	
Cutting height settings	27 mm, 39 mm, 51 mm, 64 mm, 76 mm, 88 mm, 100 mm	
Grass catcher capacity	70 l	
Sound pressure level at operator's ears (in accordance with EN ISO5395-2:2013 + A1:2016 + A2:2017)	84.8 dB(A)	85.4 dB(A)
Uncertainty	1 dB(A)	
Measured sound power level (in accordance with directives 2000/14/EC, 2005/88/EC)	96.68 dB(A)	96.33 dB(A)
Uncertainty	0.78 dB(A)	0.64 dB(A)
Sound power level guaranteed (in accordance with directives 2000/14/EC, 2005/88/EC)	98 dB(A)	
Vibration test (in accordance with EN ISO5395-2:2013 + A1:2016 + A2:2017) *	3.87 m/s ²	5.39 m/s ²
Uncertainty (EN12096)	0.45 m/s ²	0.63 m/s ²

ENGINE

Model	GCV170A
Type	4-stroke, single cylinder, vertical shaft
Displacement	166 cc
Bore and stroke	60 x 59 mm
Cooling	Forced air
Lubrication	Splash and spray
Compression ratio	8.0:1
Maximum operating engine speed	2 950 ^{±10} min ⁻¹
Net power **	3.6 kW
Nominal power	3.2 kW
Ignition system	Transistorized magneto
Spark plug	NGK: BPR5ES
Spark plug gap	0.7 ~ 0.8 mm
Air cleaner	Dry element type
Recommended fuel	Unleaded petrol E10
Fuel tank capacity	0.91 l
Recommended oil	SAE 5W-30, 10W-30, API SJ or later
Engine oil capacity	0.40 l *** Refill amount: 0.35 ~ 0.40 l
Carbon dioxide (CO ₂) emissions ****	Please refer to the CO ₂ values of the Honda engine at www.honda-engines-eu.com/co2

DRIVE

Type	Variable speed Smart Drive
Engine to transmission	V-belt
Main clutch	Slipping belt type
Mower speed	0 ~ 1.7 m/s
Recommended fluid	SAE 10W-30, API SN or later

* Values for a machine equipped with a grass catcher, in a grass collector position.

** The power rating of the engine indicated in this document is the net power output tested on a production engine for the engine model GCV170A and measured in accordance with SAE J1349 at 3 600 min⁻¹ (Net Power). Mass production engines may vary from this value. Actual power output for the engine installed in the final machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance, and other variables.

*** Actual amount will vary due to residual oil in the engine. Always use the dipstick to confirm the actual level (see page 7).

**** This CO₂ measurement results from testing over a fixed test cycle under laboratory conditions of a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.