

INTRODUCTION

Congratulations on your selection of a Honda lawn mower! We are certain you will be pleased with your purchase of one of the finest lawn mowers on the market.

We want to help you get the best results from your new mower and to operate it safely. This manual contains the information on how to do that; please read it carefully.

We suggest you read the *DISTRIBUTOR'S LIMITED WARRANTY* (page 20) and *EMISSION CONTROL SYSTEM WARRANTY* (page 21) to fully understand coverage and your responsibilities of ownership.

When your mower needs scheduled maintenance, keep in mind that an authorized Honda servicing dealer is specially trained in servicing Honda mowers and is supported by the parts and service divisions of American Honda. Your Honda dealer is dedicated to your satisfaction and will be pleased to answer your questions and concerns.

Keep this owner's manual handy, so you can refer to it at any time. This owner's manual is considered a permanent part of the lawn mower and should remain with the lawn mower if resold.

The information and specifications included in this publication were in effect at the time of approval for printing. Honda Power Equipment Mfg. Inc. reserves the right, however, to discontinue or change specifications or design at any time without notice and without incurring any obligation whatever. No part of this publication may be reproduced without written permission.

SAFETY MESSAGES

Your safety and the safety of others are very important. We have provided important safety messages in this manual and on the mower. This information alerts you to potential hazards that could hurt you or others. Please read these messages carefully.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining a lawn mower. You must use your own good judgment.

You will find important safety information in a variety of forms:

- **Safety Labels** – on the lawn mower.
- **Instructions** – how to use this mower correctly and safely.
- **Safety Messages** – preceded by a safety alert ⚠ symbol and one of three signal words: DANGER, WARNING, or CAUTION. These signal words mean:

⚠ DANGER You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ WARNING You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ CAUTION You CAN be HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen, and what you can do to avoid or reduce injury.

- **Damage Prevention Messages** – You will also see other important messages that are preceded by the word NOTICE. This word means:

NOTICE Your engine or other property can be damaged if you don't follow instructions.

HONDA

OWNER'S MANUAL HRS216PDA • HRS216SDA HRR216PDA • HRR216VKA



⚠ WARNING: ⚠
The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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* For more information regarding how to mow your lawn, see www.HondaPowerEquipment.com and click on FAQs.

LAWN MOWER SAFETY

Most injuries and property damage with walk-behind mowers can be prevented if you follow all instructions in this manual and on the mower. The most common hazards are discussed below, along with the best way to protect yourself and others.

Avoid Rotating Blades

Rotating blades can cause serious cuts and even amputate fingers, hands, toes, or feet. Keep away from the mower deck whenever the engine is running. If you need to adjust the cutting height, or work around the deck for any other reason, always shut off the engine. Wear heavy gloves and disconnect the spark plug cap when you need to clean the mower deck or handle the blades.

Clear Mowing Area

Mower blades can throw rocks and other objects with enough force to cause serious injury. Before mowing, carefully inspect the area and remove all sticks, stones, pieces of wire, and other loose objects. Never operate the blades over gravel.

Keep Shields in Place

Guards and shields are designed to protect you from being hit by thrown objects and from hot engine parts and moving components. For your safety and the safety of others, keep all shields in place when the engine is running.

Refuel with Care

Gasoline is extremely flammable and gasoline vapor can explode. Refuel only outdoors, in a well-ventilated area, with the engine OFF. Never smoke near gasoline, and keep other flames and sparks away. Always store gasoline in an approved container.

Wear Protective Clothing

Wearing protective clothing will reduce your risk of injury. Long pants and eye protection reduce the risk of injuries from thrown objects. Sturdy shoes with aggressive soles will help protect your feet and give you better traction on slopes or uneven ground.

Turn Engine Off When Not Mowing

If you need to leave the mower for any reason, even just to inspect the lawn ahead, always turn the engine OFF.

IMPORTANT MESSAGE TO PARENTS

THE SAFETY OF YOUR CHILDREN IS VERY IMPORTANT to Honda. That's why we urge you to read this message before letting your child operate this lawn mower. Lawn mowers are tools, not toys. As with any equipment, bad judgments can result in serious injuries. You can help prevent injuries by making good decisions about if, when, and how your child operates this equipment.

The first question you'll need to ask is whether your child is capable of operating this mower safely. Remember, young people vary widely, and AGE IS NOT THE ONLY FACTOR.

Physically, a child must be LARGE ENOUGH AND STRONG ENOUGH to easily start the mower and control its direction. The child also needs enough size, strength, and coordination to comfortably reach and operate the controls.

Another, tougher question you need to ask is if your child has enough MATURITY AND RESPONSIBILITY to safely operate this mower. Does the young person think through problems and come to logical solutions? Be honest! Anyone who takes unnecessary risks and doesn't obey rules should not operate this lawn mower.

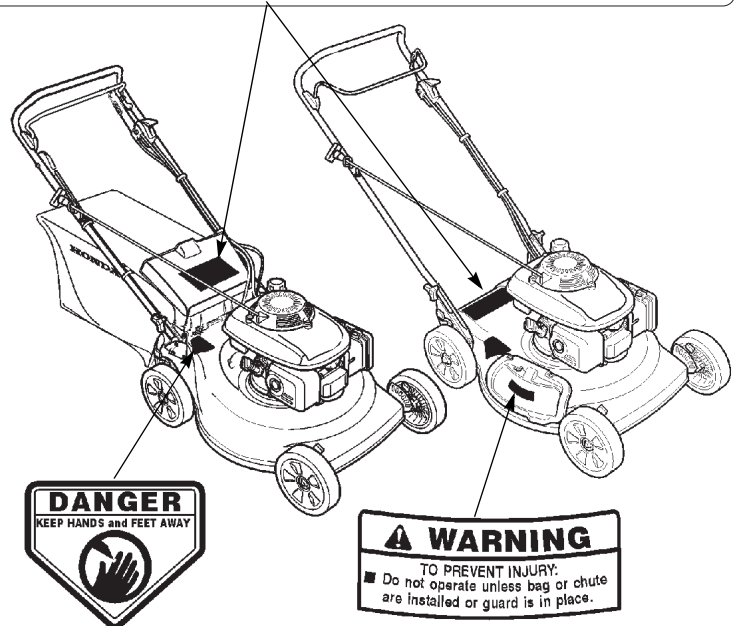
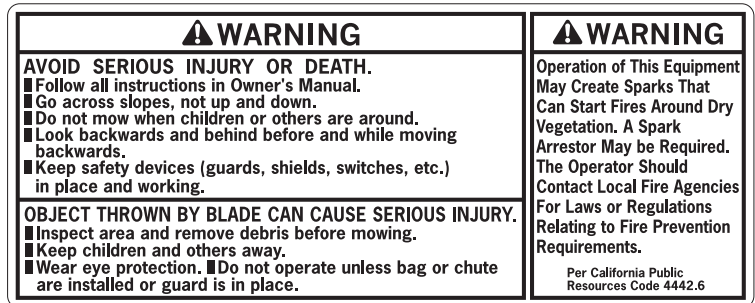
If you decide that your son or daughter can handle the mower safely, CAREFULLY READ THE OWNER'S MANUAL with your child. Make sure you both understand all instructions and safety information. Also, be sure your child wears sturdy shoes and other protective clothing when operating or handling the mower.

SUPERVISION is also very important. Walk with your child during the first few minutes of mowing. Even after he or she has become confident with the mower, do not let him or her use the mower without good adult supervision. An adult should also be present during refueling and maintenance. In fact, it's up to the adult owner to make sure that the mower is properly maintained and kept in safe operating condition.

By always placing safety first, your child will acquire useful skills and a sense of accomplishment. And you'll both get the best results from your lawn mower.

SAFETY LABEL LOCATIONS

These labels warn you of potential hazards that can cause serious injury. Read them carefully. If a label comes off or becomes hard to read, contact an authorized Honda servicing dealer for a replacement.



SETTING UP YOUR NEW MOWER

Unpacking

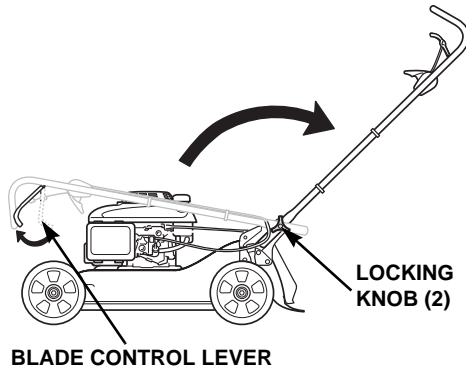
Remove all the cardboard from around the handlebar.

Handlebar Setup

Loosen the two locking knobs on the lower handlebar enough to raise the handlebar into the mowing position.

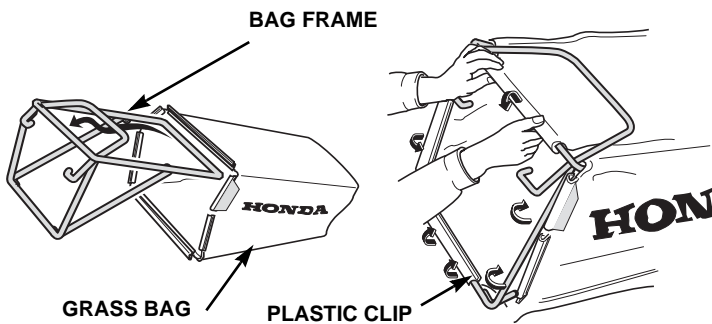
Depress the blade control lever while raising the handlebar.

Tighten the locking knobs securely.

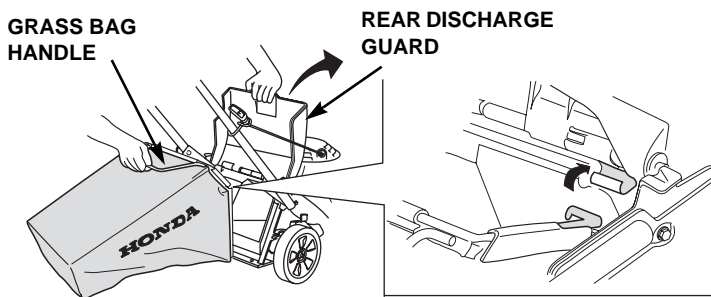


Grass Bag Assembly (HRR)

Slide the grass bag frame into the grass bag and attach the clips as shown.



Lift the rear discharge guard, remove the mulching plug, and install the grass bag.



Engine Oil

The mower is shipped **WITHOUT OIL** in the engine.

A bottle of oil is included in the box with your mower. Add the entire contents of the oil bottle into the oil filler opening.

All Honda engines are run at the factory prior to packaging. Most of the oil is removed prior to shipment; however, some oil remains in the engine. The amount of oil left in the engine varies.

If not using the supplied oil, add enough SAE 10W-30 API service category SJ or later oil to bring the oil level between the upper and lower limit marks on the dipstick as shown.

Do not overfill the engine with oil. If the engine is overfilled, the excess oil may get transferred to the air cleaner housing and air filter.

After filling the engine with oil, remove the hang tag near the recoil starter grip that says "The engine has no oil."

Fuel

Refer to [page 14](#).

Before Using Your Lawn Mower

Before using the lawn mower, all mower operators must read the following sections:

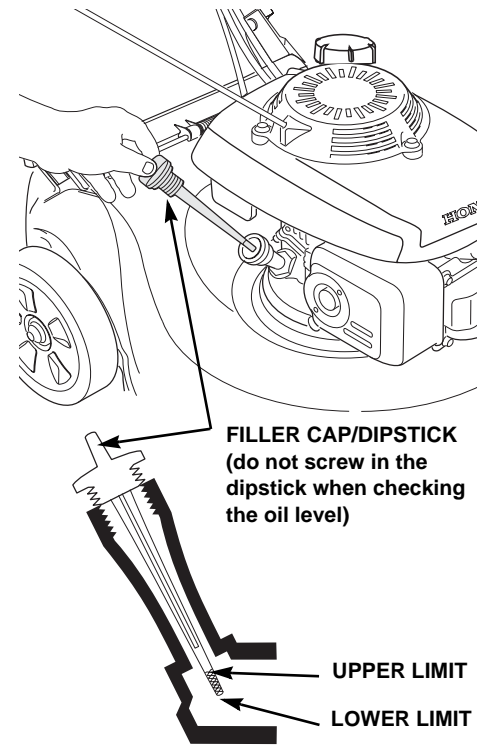
- **LAWN MOWER SAFETY** ([page 2](#))
- **CONTROL LOCATIONS** ([page 4](#))
- **BEFORE OPERATION** ([page 4](#))
- **OPERATION** ([page 6](#))
- **MAINTENANCE SCHEDULE** ([page 9](#))

You can also find additional information on the Honda Power Equipment web site. Visit www.HondaPowerEquipment.com and click on FAQs.

Please Register Your Lawn Mower

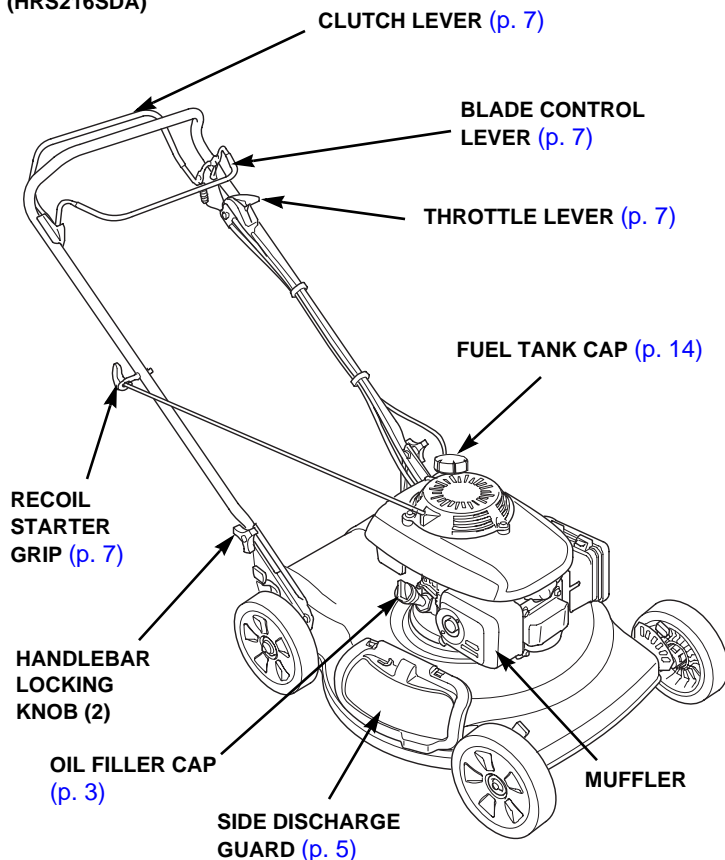
If your dealer did not collect registration information from you, please take a few minutes and register your purchase with Honda. This allows us to contact you with any important updates regarding your mower. Please note registration is not required to obtain warranty service.

You can register by completing and mailing the registration card on the back cover of this book, or go online to www.HondaPowerEquipment.com and click on Product Registration.

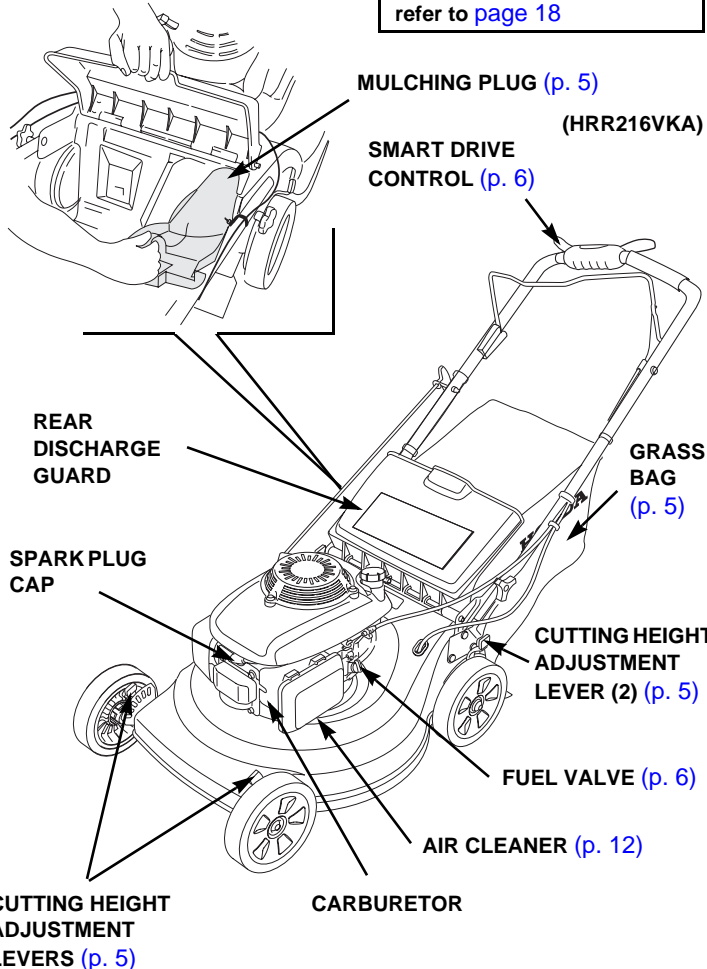


CONTROL LOCATIONS

(HRS216SDA)



To easily identify your model, refer to [page 18](#)



BEFORE OPERATION

Your safety is your responsibility. A little time spent in preparation will significantly reduce your risk of injury.

Read and understand this manual. Know what the controls do and how to operate them.

Familiarize yourself with the lawn mower and its operation before you begin using it. Know how to quickly shut off the lawn mower in case of an emergency.

IS YOUR LAWN MOWER READY TO GO?

For your safety, and to maximize the service life of your lawn mower, it is very important to take a few moments before you operate the lawn mower to check its condition. Be sure to take care of any problem you find, or have your servicing dealer correct it, before you operate the lawn mower.

⚠ WARNING

Improperly maintaining this lawn mower, or failing to correct a problem before operation, could cause a malfunction in which you could be seriously injured.

Always perform a pre-operation inspection before each operation, and correct any problem.

Before beginning your pre-operation checks, be sure the lawn mower is on a level surface.

Check the General Condition of the Lawn Mower:

- Look around and underneath the lawn mower for signs of oil or gasoline leaks.
- Look for signs of damage.
- Check each control for proper operation.
- Check the blade(s) for wear. Replace as necessary ([page 10](#)).
- Check that the blade bolts are tight ([page 11](#)).
- Check that all nuts, bolts, screws are tightened.

Check the Engine:

- Check the air cleaner ([page 12](#)) and oil level ([page 11](#)).
- Check the fuel level ([page 14](#)). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.

CHECK YOUR MOWING AREA

For your safety and the safety of others, always inspect the area before operating the lawn mower.

Objects

Anything that can be picked up by the blades and thrown is a potential hazard to you and others. Look for things like stones, sticks, nails, and wire, and remove them from the lawn area.

People and Pets

People and animals near the lawn area can move into your lawn mower's path or into a position where they could be struck by thrown objects. Clear the area of pets and people, especially children. Their safety is your responsibility.

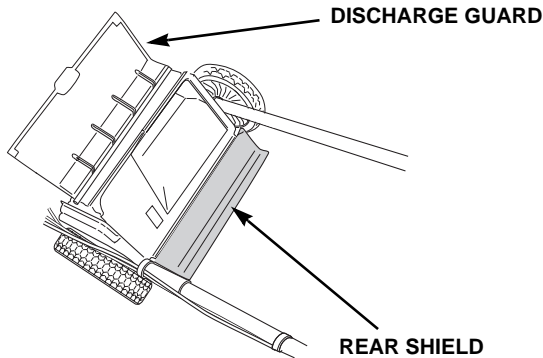
Lawn Conditions

Check the condition of the grass. Adjust your lawn mower ground speed and mowing swath accordingly.

GET THE MOWER READY

Rear Shield (HRR)

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



Cutting Height Adjustment

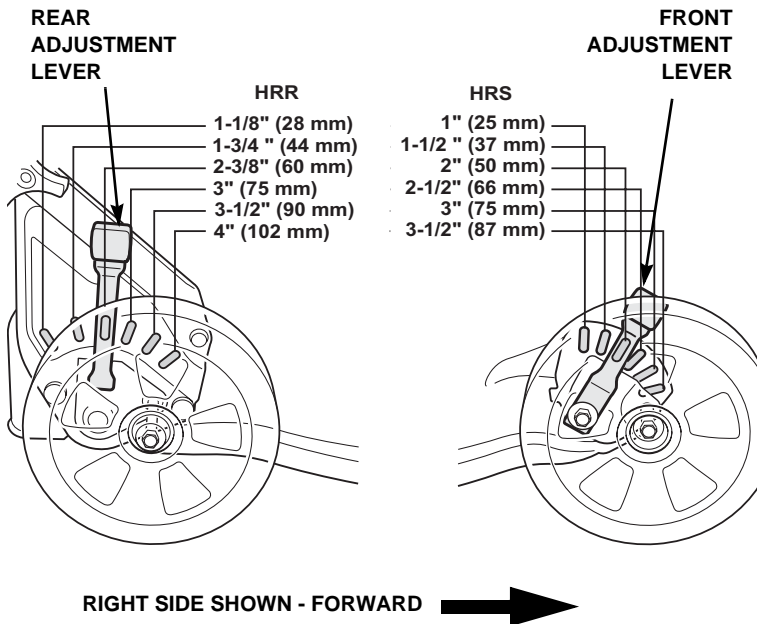
The cutting height figures are approximate. The actual height of cut grass will vary with lawn and soil conditions.

To adjust the cutting height, pull each adjustment lever toward the wheel, and move it into another notch.

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 cutting height if necessary.

The mower deck can be set to any of the six approximate settings. Each wheel should be adjusted to the same position.

Lower deck	Move both the front and rear adjusters backward.
Raise deck	Move both the front and rear adjusters forward.

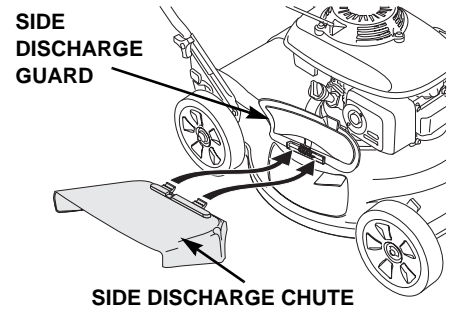


Side Discharge Chute (HRS)

The mower can be used to mulch or side discharge grass clippings.

To mulch, make sure the side discharge chute is not installed, and the side discharge guard on the mower deck is fully closed.

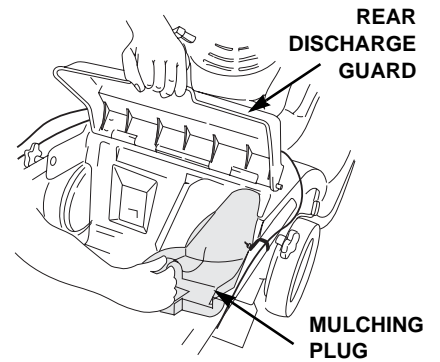
To discharge clippings to the side, stop the engine, lift the side door up, and install the side discharge chute as shown.



Mulching Plug (HRR)

The mulching plug helps to curve the inside of the mower deck for more efficient mulching.

Install and remove the mulching plug by raising the rear discharge guard as shown. The mulching plug only fits one way. Remove the mulching plug when using a grass bag.



Grass Bag (HRR)

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

Inspection

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

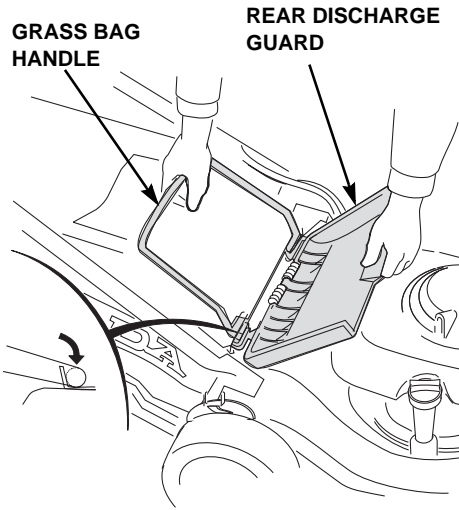
NOTICE

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

Grass bag replacement is explained on [page 11](#).

Installation

1. Remove the mulching plug when using a grass bag.
2. Raise the rear discharge guard and hook the grass bag onto the mower deck as shown.
3. Release the rear discharge guard to secure the grass bag.



Removal

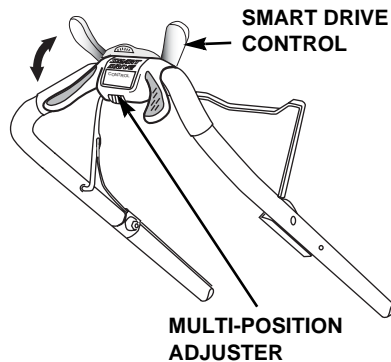
1. Raise the rear discharge guard, grasp the grass bag handle, and remove the grass bag.
2. Release the rear discharge guard.
3. When the grass bag is clear of the rear discharge guard, you can lift it through the handlebar opening, or you can remove it to the rear of the mower below the handlebar.

Smart Drive™ Control (VKA)

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

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

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



OPERATION

SAFE OPERATING PRECAUTIONS

Before operating the mower for the first time, please review *LAWN MOWER SAFETY* (page 2). Even if you have operated other mowers, take 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, which 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), refer to the *Fuel* section of the *STORAGE* chapter (page 15) for additional information regarding fuel deterioration.

STARTING THE ENGINE

The blade(s) turn when you pull the starter grip. It is easiest to start the engine in a clear or mowed area where the blade(s) can turn freely.

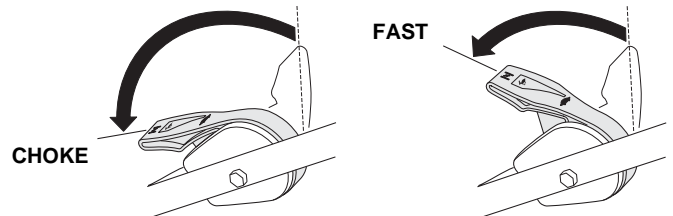
1. Turn the fuel valve to the ON position.
2. PDA, SDA: Move the throttle lever to the proper starting position.

COLD ENGINE:

Move the throttle lever to the CHOKE position.

WARM ENGINE:

Move the throttle lever to the FAST position.

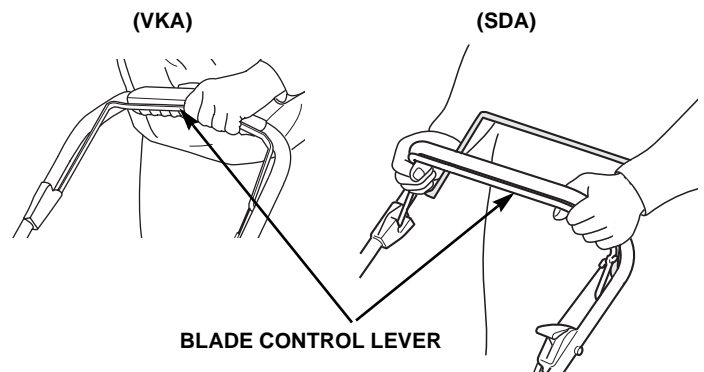


VKA: This model has an automatic choke and a fixed throttle.

3. SDA, VKA: Release the clutch lever or the Smart Drive control.

This will prevent the mower from moving forward when you operate the starter.

4. Pull back on the blade control lever and hold it against the handlebar.

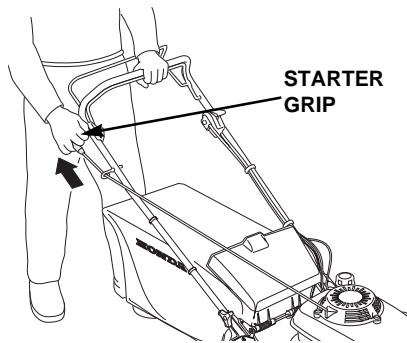


- Pull the starter grip lightly until you feel resistance, and then pull briskly. Return the starter grip gently.

Keep your hands and feet away from the mower deck at all time when starting and running the engine.

Continue to hold the blade control lever against the handlebar; the engine stops when the blade control lever is released.

- PDA, SDA: If the CHOKE position was used during starting, move the throttle lever away from the CHOKE position as soon as the engine warms up enough to run smoothly without using the choke. Set the throttle lever at FAST to mow or at SLOW to idle.



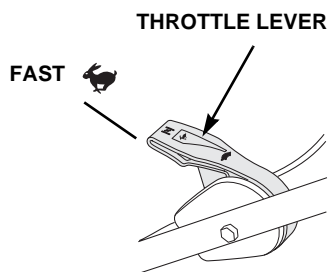
OPERATING THE CONTROLS FOR MOWING

Throttle Lever (PDA, SDA)

For best cut quality, always mow with the throttle lever in the FAST position. When the blade(s) rotate at the preset fast speed, it creates a strong fan action that lifts and cuts grass more efficiently.

Do not try to increase the preset engine speed; the blade(s) could fracture and come apart.

VKA: This model does not have a throttle lever. The throttle is fixed and always runs at the FAST setting.

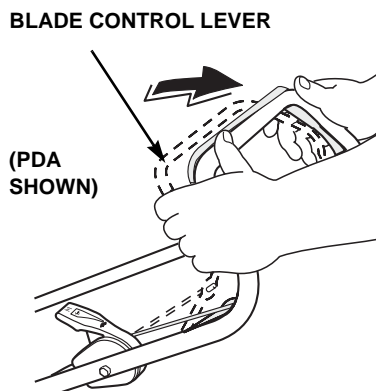


Blade Control Lever

The blade control lever must be pulled back against the handlebar to start and run the engine. The blade(s) start to rotate when the lever is pulled back against the handlebar and the recoil starter grip is pulled.

Continue to hold the lever fully against the handlebar. This will keep the engine and blade(s) rotating smoothly and prevent premature wear to the flywheel brake system.

Release the blade control lever to stop the engine and stop blade rotation whenever you need to leave the mower.



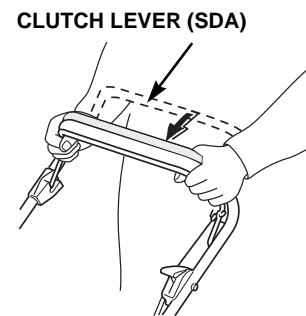
Clutch Lever (SDA)

Push the clutch lever forward and hold it against the handlebar to propel the mower forward.

Release the clutch lever to stop the mower's forward movement.

Always release the clutch lever before starting the engine. If the clutch is engaged, the mower will move forward when you operate the starter.

Operate the clutch lever with a quick and complete motion so the clutch is either fully engaged or fully released. Hold the clutch lever against the handlebar during self-propelled mowing. This will help to extend the service life of the clutch mechanism.



Smart Drive Control (VKA)

The Smart Drive control can be adjusted up or down into any one of five positions ([page 6](#)).

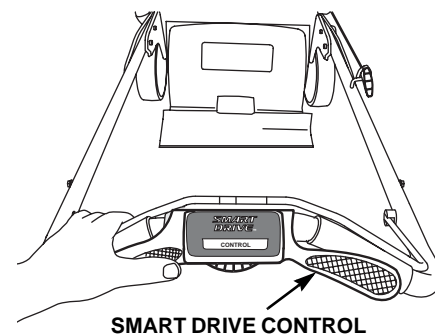
With the engine running and the blades rotating, slowly push the Smart Drive control to propel the mower forward.

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.

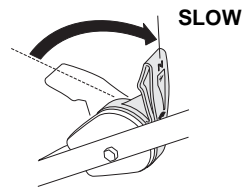
Ground speed control sensitivity will vary with such factors as terrain, grass height, slope, and grass bag weight. For example, achieving a very slow ground speed on smooth level terrain requires very light pressure be applied to the Smart Drive control. However, additional pressure may be required to achieve the same ground speed on slopes, in tall grass, or on uneven terrain. The Smart Drive control is designed to allow you to move the control to maintain the desired ground speed under constantly changing mowing conditions.

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

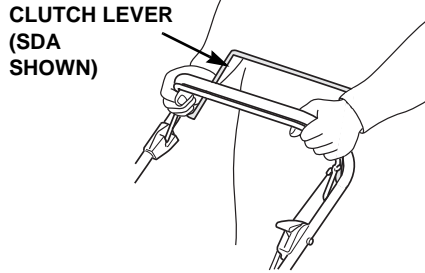


STOPPING THE ENGINE

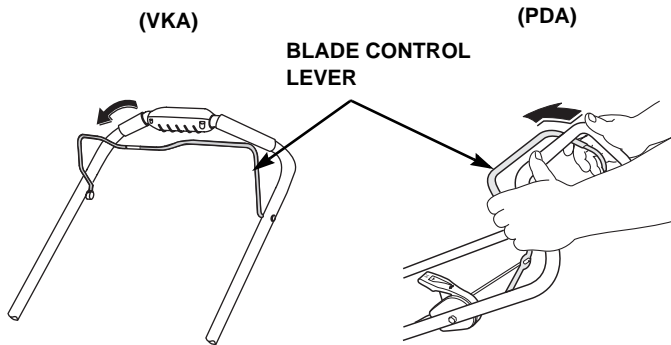
1. PDA, SDA: Move the throttle lever to the SLOW position.



2. SDA: Release the clutch lever.
VKA: Release the Smart Drive control lever.

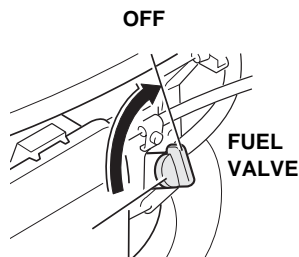


3. Release the blade control lever.



4. When the mower is not in use, turn the fuel valve OFF.

5. 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 the *Fuel* section on page 15 for periods of inactivity that exceed 4 weeks.



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.

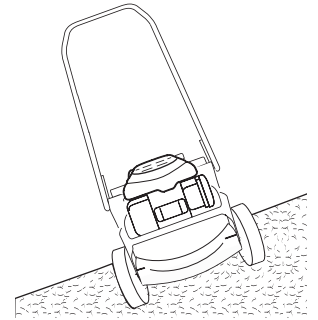
⚠ WARNING

The blade(s) are sharp and spin at high speed. A spinning blade can cut you severely and can amputate fingers and toes.

- Wear protective footwear.
- Keep your hands and feet away from the mower deck 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°), 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 clutch lever or 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, raised tree roots, etc. Avoid anything that sticks up above the surface of the lawn.

If the blade hits something, or if the mower starts to vibrate, stop the engine immediately, disconnect the spark plug cap, and check for damage (page 10). Striking objects may damage the blade(s), bend the crankshaft, and/or break the mower deck or other components. Vibration usually indicates serious trouble.

⚠ WARNING

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

Thrown objects can cause serious injury.

Inspect the blade(s) regularly, and do not operate the mower with a worn or damaged blade.

The *DISTRIBUTOR'S LIMITED WARRANTY* (page 20) 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 many feet 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 blade control lever to stop the blade(s) before reaching areas with gravel, loose stones, or landscaping material.

MOWING TIPS

Which Blade?

Grasses and lawn conditions vary greatly, so Honda models can use a number of standard and optional blades. Use this chart to help determine which blade(s) are best suited for your lawn. See page 19 for more information on these blades.

Model	Performance		Blade(s)
	Mulching	Side Discharge	
HRS	Good	Good	Standard low-lift single
	Best	Best	Optional upper mulching Optional high-lift lower
HRR*	Best	Best**	Standard upper mulching Standard high-lift lower

*Always use an upper and lower blade on HRR models.

** With optional side-discharge chute.

SERVICING YOUR LAWN MOWER

Proper maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

⚠ 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.

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 severe conditions, such as sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Remember that an authorized Honda 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.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are "certified" to EPA standards.

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.

Safety Precautions

- Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:
 - **Carbon monoxide poisoning from engine exhaust.**
Be sure there is adequate ventilation whenever you operate the engine.
 - **Burns from hot parts.**
Let the engine and exhaust system cool before touching.
 - **Injury from moving parts.**
Do not run the engine unless instructed to do so.

- Read the instructions before you begin, and make sure you have the tools and skills required.
- To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

MAINTENANCE SCHEDULE

Regular Service Period	Item	Page
Before each use	Rear shield: Check Blade(s): Check Blade torque: Check Grass bag: Check (HRR) Engine oil level: Check Air filter: Check Operation of the blade control: Check	page 5 page 10 page 11 page 11 page 11 page 12 page 13
First month or 5 hours	Engine oil: Change Smart Drive cable: Adjust (VKA) ⁽³⁾	page 12
First 25 hours	Air filter: Clean ⁽¹⁾ Smart Drive cable: Adjust (VKA) ⁽³⁾ Throttle cable: Adjust (PDA, SDA) ⁽³⁾	page 12
50 hours	Engine oil: Change ⁽²⁾ Air filter: Clean ⁽¹⁾ Smart Drive cable: Adjust (VKA) ⁽³⁾ Flywheel brake pad: Check ⁽³⁾	page 12 page 12
100 hours	Spark plug: Check-adjust Spark arrester: Clean (if equipped) Operation of the blade control: Check Idle speed: Check-Adjust (PDA, SDA) ⁽³⁾ Throttle cable: Adjust (PDA, SDA) ⁽³⁾ Fuel tank and filter: Clean ⁽³⁾ Valve clearance: Check-Adjust ⁽³⁾ Pinion gears: Grease (SDA, VKA) ⁽³⁾	page 13 page 13 page 13
150 hours	Air filter: Replace Spark plug: Replace Rear wheel adjuster bushings: Inspect-Grease ⁽³⁾	page 12 page 13
Every 2 years	Fuel lines: Check (replace if necessary) ⁽³⁾	

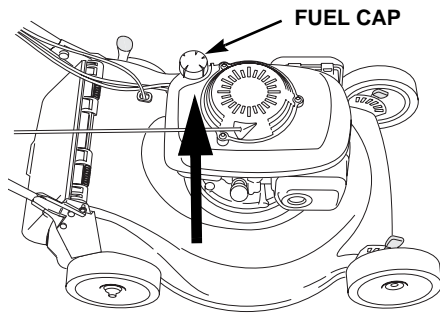
- (1) Service more frequently when used in dusty areas.
- (2) Change engine oil every 25 hours when used under heavy load or in high ambient temperatures.
- (3) These items should be serviced by an authorized Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.

Failure to follow this maintenance schedule could result in non-warrantable failures.

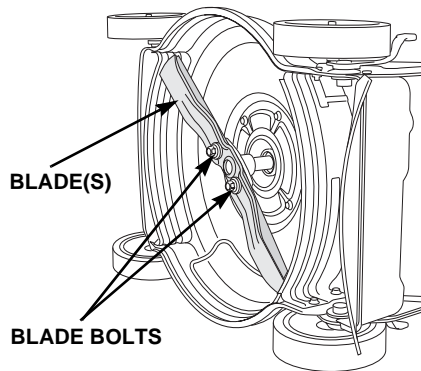
BLADE(S)

Inspection

1. Turn the fuel valve OFF.
2. Disconnect the spark plug cap from the spark plug (page 13).
3. Tilt the mower to the right, so the fuel cap side is up. This will help to prevent fuel leakage and hard starting.



4. Inspect the blade(s) for damage, cracks, and excessive rust or corrosion.



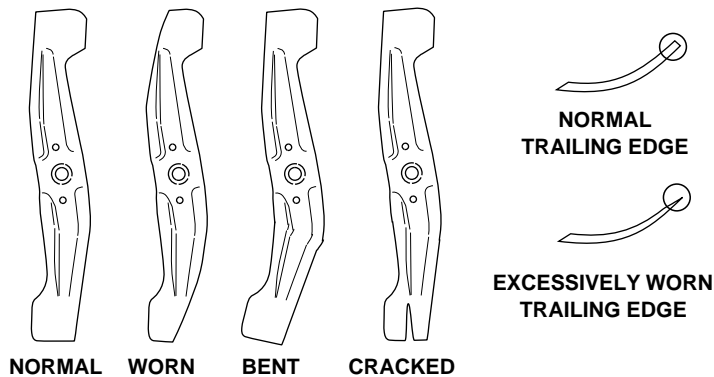
⚠ WARNING

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

Thrown objects can cause serious injury.

Inspect the blade(s) regularly, and do not operate the mower with worn or damaged blade(s).

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



If a blade is bent, take the lawn mower to an authorized Honda servicing dealer for inspection.

5. Check that the blade bolts are tight. A torque wrench is required to accurately tighten the blade bolts to the required torque.

Removal and Installation

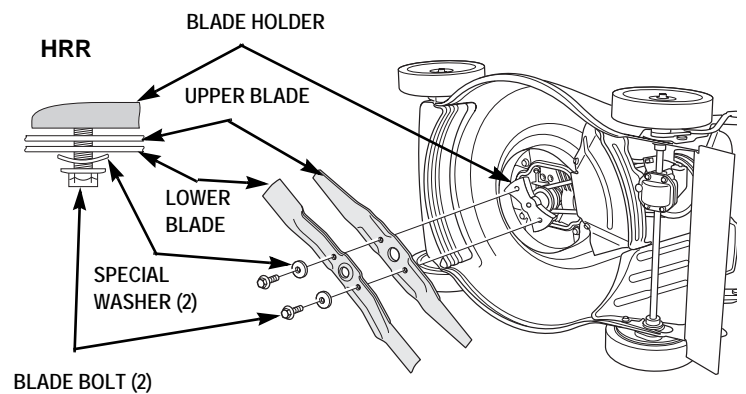
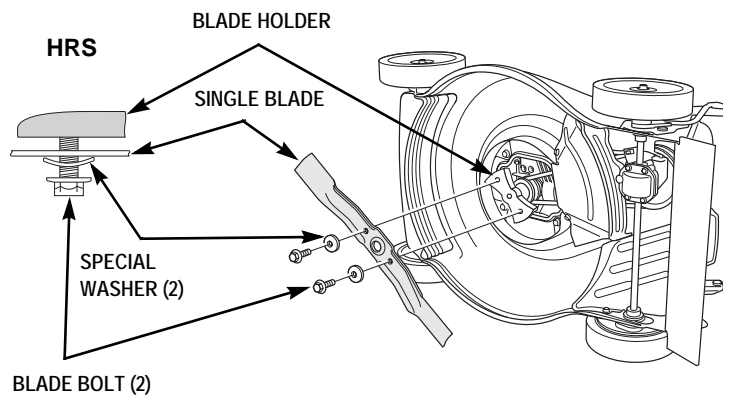
If you remove the blade(s) for sharpening or replacement, you will need a torque wrench for installation. Wear heavy gloves to protect your hands.

BLADE SHARPENING: To avoid weakening the blade(s) or causing imbalance or poor cutting, the blade(s) should be sharpened by trained staff at an authorized Honda servicing dealer.

BLADE REPLACEMENT: Use Honda Genuine replacement blade(s) or their equivalent (page 19).

Removal

1. Turn the fuel valve OFF. Disconnect the spark plug cap, and then tilt the mower to the right side, so the fuel cap side is up. This will help to prevent fuel leakage and hard starting due to carburetor flooding.
2. Remove the two blade bolts with a 14 mm (6 point) socket wrench. Use a wooden block to prevent the blade(s) from turning when removing the bolts. Remove the blade(s).



Always use an upper and lower blade on the HRR models.

Installation

1. Clean dirt and grass from around the blade mounting area.
2. Install the blade(s) using the two blade bolts and special washers as shown. Be sure to install the special washers with the concave side toward the blade(s) and the convex side toward the bolt head.

⚠ WARNING

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

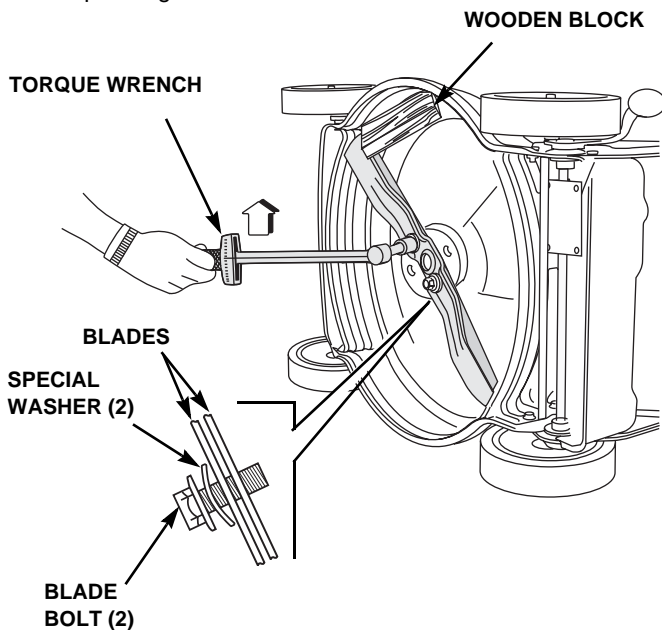
Always install both blades as a set.

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

3. Tighten the blade bolts with a torque wrench. Use a wooden block to prevent the blade(s) from turning when tightening the bolts.

Blade bolt torque: 36 ~ 43 ft-lb (49 ~ 59 N·m)

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



GRASS BAG CLEANING AND REPLACEMENT (HRR)

Cleaning

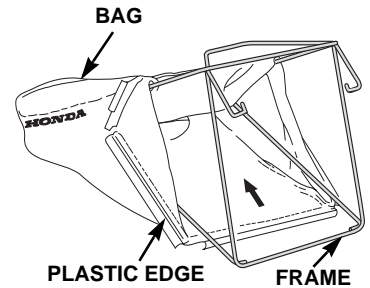
Wash the bag with a garden hose, and allow it to dry completely before use; a wet bag will clog quickly.

Replacement

Replace a worn or damaged bag with a Honda replacement bag or its equivalent ([page 19](#)).

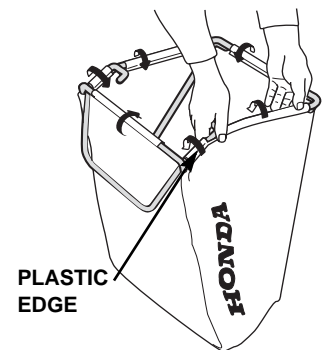
Removal

1. Unclip the plastic edges of the bag from the frame.
2. Remove the frame from the bag.



Installation

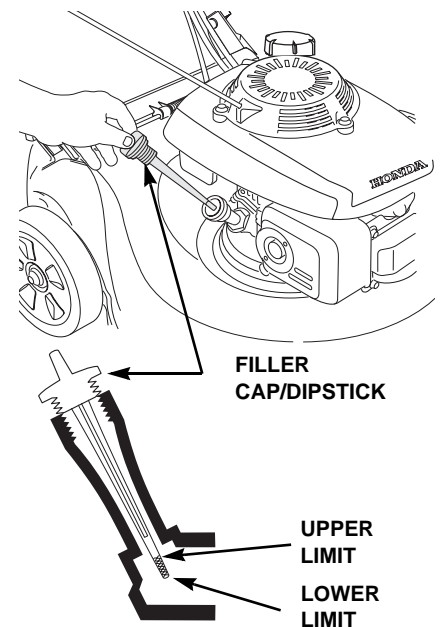
1. Insert the frame into the bag, as shown.
2. Clip the plastic edges of the bag onto the frame, as shown.



ENGINE MAINTENANCE

Engine Oil Level Check

1. Unscrew and remove the filler cap/dipstick and wipe it clean.
2. Insert and remove the dipstick **without screwing it into the filler neck**. Check the oil level shown on the dipstick.
3. If the oil level is low, add oil to reach the upper limit mark 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.

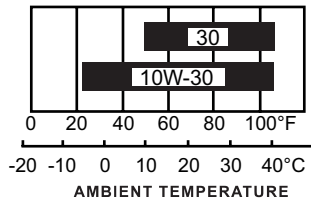
4. Screw in the filler cap/dipstick securely.

Engine Oil Recommendations

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

Always change the oil in accordance with the *MAINTENANCE SCHEDULE* (page 9).

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the recommended range.

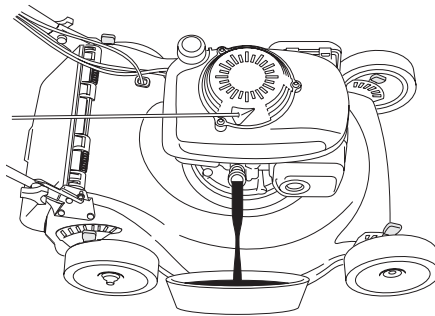


The SAE oil viscosity and service classification are in the API label on the oil container. Honda recommends API service category SJ or later oil.

Engine Oil Change

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

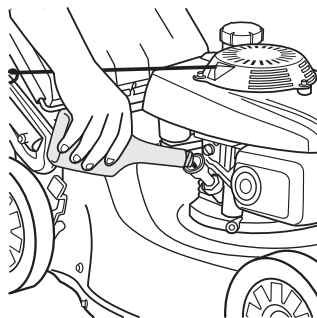
1. Turn the fuel valve OFF. This will reduce the possibility of fuel leakage.
2. Wipe the oil filler area clean, and then remove the oil filler cap/dipstick.
3. Place a suitable container next to the mower to catch the used oil, and then tilt the mower on its right side.



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. Do not overfill. Allow a couple of minutes for the oil to settle in the engine, and then measure the oil level.



NOTICE

Using nondetergent oil can shorten the engine's service life, and using 2-stroke oil can damage the engine.

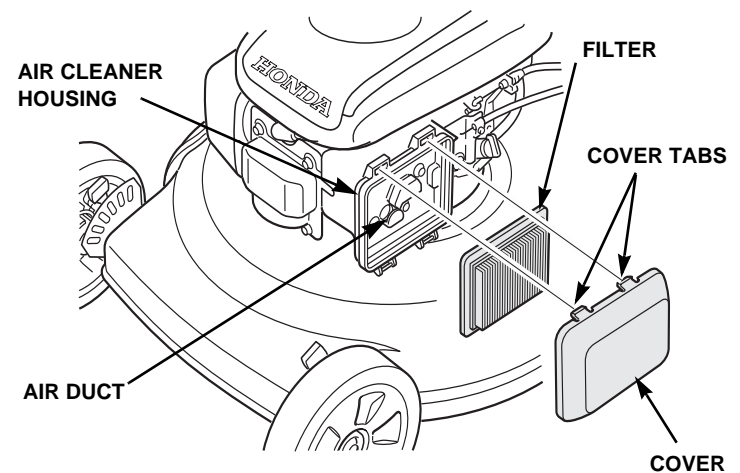
Air Cleaner Service

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. 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 cleaner, or with a damaged air cleaner, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered by the DISTRIBUTOR'S LIMITED WARRANTY (page 20).

We recommend the use of a Honda Genuine air filter to ensure it seals and preforms as designed. Using a non-Honda air filter can result in dirt bypassing the filter, causing damage to the engine or fuel system.



1. Press down on the cover tabs and remove the cover.
2. Remove the filter from the air cleaner housing.
3. Inspect the filter; replace if damaged. Always use a Honda Genuine air filter to ensure the air filter seals (page 19).
4. Clean the filter by tapping it several times on a hard surface to remove dirt, or blow compressed air (not exceeding 30 psi [207 kPa]) through the air 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.

Spark Plug Service

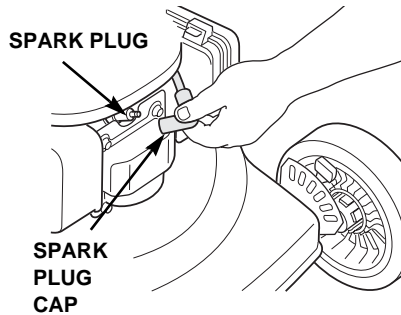
Recommended Spark Plug: NGK - BPR5ES

NOTICE

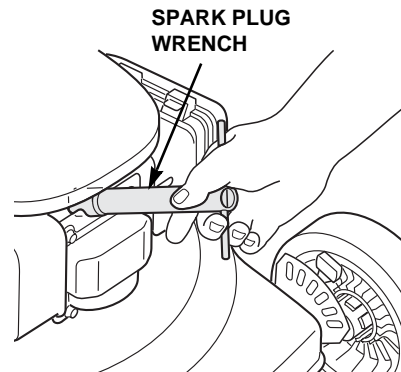
An incorrect spark plug can cause engine damage.

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

1. Disconnect the spark plug cap and remove any dirt from around the spark plug area.

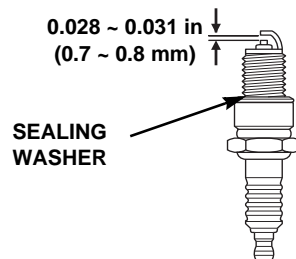


2. Remove the spark plug with a 13/16 in (21 mm) spark plug wrench.



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 0.028 ~ 0.031 in (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 13/16 in (21 mm) 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 sealing washer.

NOTICE

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

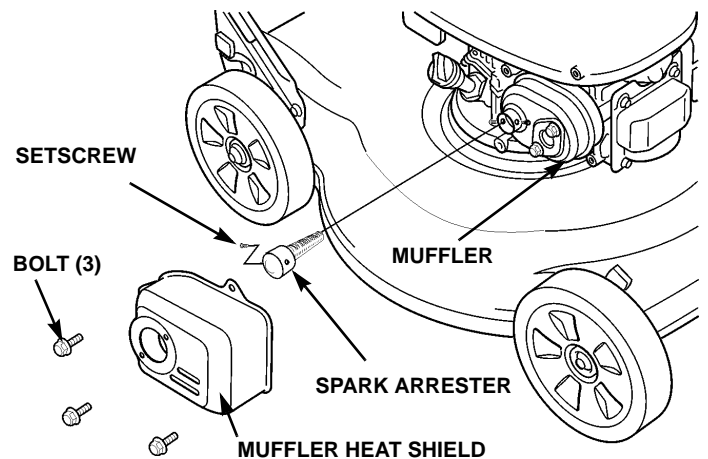
7. Install the spark plug cap on the spark plug.

Spark Arrester Service (optional equipment)

Your lawn mower engine is not factory-equipped with a spark arrester. In some areas, it is illegal to operate an engine without a spark arrester. Check local laws and regulations. An optional USDA approved spark arrester is available from an authorized Honda servicing dealer. See [page 19](#) for part numbers.

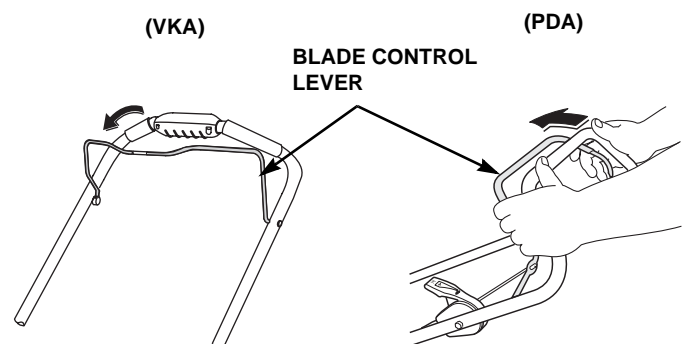
The spark arrester must be serviced every 100 hours to keep it functioning as designed.

1. Allow the engine to cool and disconnect the spark plug cap.
2. Remove the three flange bolts and the heat shield. Remove the setscrew and the spark arrester from the muffler.
3. Check for carbon deposits on the spark arrester and the exhaust port. Use a brush to remove any carbon deposits from the screen. Replace the screen if it is torn or damaged.
4. Installation is the reverse of removal. Tighten all hardware securely.
5. Reconnect the spark plug cap.



Operation of the Blade Control

1. Start the engine outdoors.
2. Move the throttle to FAST position (PDA, SDA).
3. Release the blade control lever; the engine should stop quickly. If it does not, take your mower to an authorized Honda servicing dealer for repair.



REFUELING

This engine is certified to operate on unleaded gasoline with a pump octane rating of 86 or higher.

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

Refuel in a well-ventilated area with the engine stopped. If the engine has been running, allow it to cool first. Never refuel the engine inside a building where gasoline fumes may reach flames or sparks.

You may use regular unleaded gasoline 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.

If your equipment will be used on an infrequent or intermittent basis (more than 4 weeks before next use), refer to the *Fuel* section of the *STORAGE* chapter ([page 15](#)) for additional information regarding fuel deterioration.

⚠ WARNING

Gasoline is highly flammable and explosive.

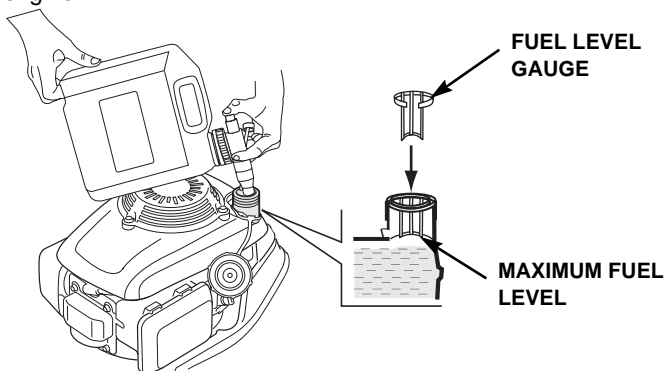
You can be burned or seriously injured when handling fuel.

- Stop the engine and keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Wipe up spills immediately.

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

Adding Fuel

1. Remove the fuel tank cap.
2. Add fuel to the bottom of the red fuel level gauge in the neck of the fuel tank. Do not overfill. Wipe up spilled fuel before starting the engine.



3. Tighten the fuel tank cap until it clicks.

Move the mower at least 10 feet (3 meters) away from the fueling source and site before starting the engine.

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 by the DISTRIBUTOR'S LIMITED WARRANTY ([page 20](#)).

Fuel Storage Container

Store your gasoline 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.

If you have some fuel left in your storage container at the end of the season, the Environmental Protection Agency (EPA) suggests adding the gasoline to your vehicle's gas tank (<http://epa.gov/reg5oair/mobile/winter.html>).

TRANSPORTING

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.

1. Turn the fuel valve to the OFF position. This will prevent carburetor flooding and reduce the possibility of fuel leakage.
2. If installed, remove the grass bag.

If a suitable loading ramp is not available, two people should lift the mower on and off the transport vehicle while holding the mower level.

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.

Fold the handlebar so the mower will take up less space ([page 15](#)).

STORAGE

PREPARING FOR STORAGE

Proper storage preparation is essential for keeping your lawn mower trouble free and looking good. The following steps will help to keep rust and corrosion from impairing your lawn mower's function and appearance, and will make the engine easier to start when you use the lawn mower again.

Cleaning

Engine

Wash the engine by hand, and be careful to prevent water from entering the air cleaner.

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 element 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 washing.

Mower Deck

Before washing the underside of the mower deck, be sure the fuel valve is in the OFF position. Disconnect the spark plug cap. Rest the mower on its right side, so the carburetor side is up. This will help to prevent fuel leakage and hard starting due to carburetor flooding. Wear heavy gloves to protect your hands from the blade(s).

Wash the lawn mower, including the underside of the mower deck.

If using a garden hose or pressure washing equipment to clean the mower deck, be careful to avoid getting water into controls and cables, or anywhere near the engine air cleaner or muffler opening.

Grass Bag (HRR)

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

Drying

1. After washing the lawn mower, wipe dry all accessible surfaces.
2. With the mower in an upright position, start the engine outdoors and let it run until it reaches normal operating temperature to evaporate any water remaining on the engine.
3. Stop the engine and allow it to cool.
4. After the lawn mower 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.

Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting, and it leaves gum deposits that can clog the small passages in the fuel system. If the gasoline 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 gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline 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 gasoline was not fresh when you filled the fuel tank.

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

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 equipment 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 gasoline. If the tank is 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 gasoline has replaced the untreated gasoline in the carburetor.
3. Turn the fuel valve to the OFF position.
4. 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 gasoline from the entire fuel system (including the fuel tank). Do not allow gasoline to remain in your engine for more than 90 days of inactivity.

The *DISTRIBUTOR'S LIMITED WARRANTY* (page 20) does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

Engine Oil

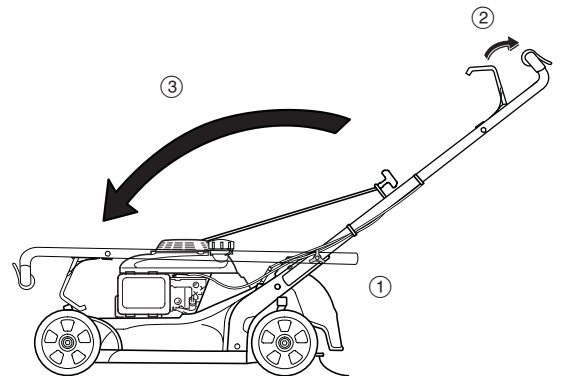
Change the engine oil (page 12).

Engine Cylinder

1. Remove the spark plug (page 13).
2. Pour 1~ 2 teaspoons (5 ~ 10 cc) of clean engine oil into the cylinder to keep it from rusting.
3. Pull the starter rope several times to distribute the oil in the cylinder.
4. Reinstall the spark plug.
5. Pull the starter rope slowly until resistance is felt, and then return the starter grip gently. This will close the valves so moisture cannot enter the engine cylinder.

Handlebar Folding

Remove the grass bag (HRR) if installed. You can place it on top of the engine, with the bag opening to the front.



1. Loosen the handlebar locking knobs ①.
2. Press and hold the blade control lever ②.
3. Swing the handlebar forward ③.
Prevent the cables from getting pinched or kinked.
When unfolding the handlebar, be sure to tighten the adjust knobs to secure the handlebar in the mowing position.

PLACING IN STORAGE

If your mower will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline 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.

Make sure the fuel valve is in the OFF position to reduce the possibility of fuel leakage.

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.

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 *BEFORE OPERATION* (page 4).

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

TAKING CARE OF UNEXPECTED PROBLEMS

Engine Will Not Start

Possible Cause	Correction
Fuel valve OFF	Turn the fuel valve ON (page 6).
Throttle lever in the wrong position (PDA, SDA)	Move the throttle lever to the CHOKE position, unless the engine is warm (page 6).
Out of fuel	Refuel (page 14).
Bad fuel; mower stored without treating gasoline, or refueled with bad gasoline	Refuel with fresh gasoline (page 14).
Spark plug faulty, fouled, or improperly gapped	Gap or replace the spark plug (page 13).
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 for repair.

Loss of Power

Possible Cause	Correction
Throttle not set to FAST (PDA, SDA)	Move the throttle to FAST (page 7).
Grass is too tall to cut	Raise the cutting height (page 5), cut a narrower swath, use a slower ground speed, or cut more frequently.
Mower deck is clogged	Clean out the mower deck (page 14).
Air filter is clogged	Clean or replace the air filter (page 12).
Bad fuel; mower stored without treating gasoline, or refueled with bad gasoline	Refuel with fresh gasoline (page 14).
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the mower to an authorized Honda servicing dealer for repair.

Vibration

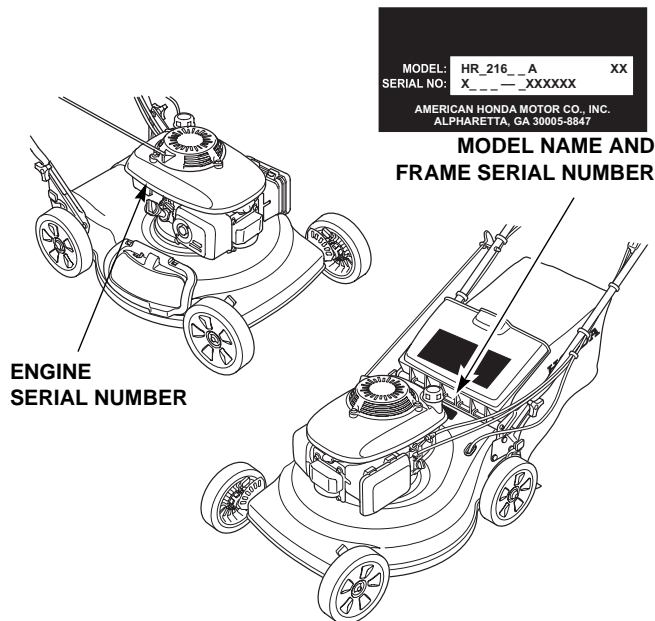
Possible Cause	Correction
Grass and debris lodged under the mower deck	Clean out the mower deck (page 14).
Blade(s) loose, bent, damaged, or unbalanced by improper sharpening	Tighten loose blade bolts (page 11). If blade(s) are found to be bent or damaged, take the lawn mower to an authorized Honda servicing dealer for inspection.
Mechanical damage, such as a bent crankshaft	Take the mower to an authorized Honda servicing dealer for repair.

Mowing and Bagging Problems

Possible Cause	Correction
Engine speed is too slow to cut well (PDA, SDA)	Move the throttle lever to the FAST position (page 7).
Mower is moving too fast for lawn conditions	Release the clutch lever (SDA, VKA) and push at a slower speed.
Cutting height adjustment levers set at different positions	Set all levers at the same cutting height position (page 5).
Grass bag overfilled or clogged (HRR)	Empty the grass bag. Wash the grass bag if it is clogged with dirt (page 15).
Mower deck is clogged	Clean out the mower deck (page 14).
Blade(s) dull, worn, or damaged	Sharpen or replace the blade(s) if necessary (page 10).
Wrong blade(s) installed	Install correct blade(s) (page 19).

TECHNICAL INFORMATION

SERIAL NUMBER LOCATIONS



There are two serial numbers, one for the engine and one for the mower frame. Record the engine and frame serial numbers in the space below. You will need these serial numbers when ordering parts and when making technical or warranty inquiries.

Engine serial number: _____

Frame serial number: _____

Date of purchase: _____

CARBURETOR MODIFICATION FOR HIGH ALTITUDE OPERATION

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. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your lawn mower at altitudes above 5,000 feet (1,500 meters), have your servicing dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower 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 5,000 feet (1,500 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.

EMISSION CONTROL SYSTEM

Source of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

Honda utilizes appropriate air/fuel ratios and other emissions control systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons. Additionally, Honda fuel systems utilize components and control technologies to reduce evaporative emissions.

The U.S., California Clean Air Act, and Environment Canada

EPA, California, and Canadian regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emissions control systems.

The following instructions and procedures must be followed in order to keep the emissions from your Honda engine within the emissions standards.

Tampering and Altering

Tampering with or altering the emissions control system may increase emissions beyond the legal limit. Among those acts that constitute tampering are:

- Removal or alteration of any part of the intake, fuel, or exhaust systems.
- Altering or defeating the speed-adjusting mechanism to cause the engine to operate outside its design parameters.

Problems That May Affect Emissions

If you are aware of any of the following symptoms, have your engine inspected and repaired by your servicing dealer.

- Hard starting or stalling after starting
- Rough idle
- Misfiring or backfiring under load
- Afterburning (backfiring)
- Black exhaust smoke or high fuel consumption

Replacement Parts

The emissions control systems on your new Honda engine were designed, built, and certified to conform with EPA, California, and Canadian emissions regulations. We recommend the use of Honda Genuine parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emissions control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emissions performance. The manufacturer or rebuilder of the part must certify that use of the part will not result in a failure of the engine to comply with emissions regulations.

Maintenance

Follow the *MAINTENANCE SCHEDULE* on [page 9](#). Remember this schedule is based on the assumption that your machine will be used for its designed purpose. Sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, will require more frequent service.

AIR INDEX

An Air Index Information hang tag/label is applied to engines certified to an emission durability time period in accordance with the requirements of the California Air Resources Board.

The bar graph is intended to provide you, our customer, the ability to compare the emissions performance of available engines. The lower the Air Index, the less pollution.

The durability description is intended to provide you with information relating the engine's emission durability period. The descriptive term indicates the useful life period for the engine's emission control system. See your *EMISSION CONTROL SYSTEM WARRANTY* ([page 21](#)) for additional information.

Descriptive Term	Applicable to Emissions Durability Period
Moderate	50 hours (0–80 cc inclusive) 125 hours (greater than 80 cc)
Intermediate	125 hours (0–80 cc inclusive) 250 hours (greater than 80 cc)
Extended	300 hours (0–80 cc inclusive) 500 hours (greater than 80 cc) 1000 hours (225 cc and greater)

SPECIFICATIONS

Features

Model	HRS216		HRR216	
	PDA	SDA	PDA	VKA
Push	●		●	
Self-propelled, 1-speed		●		
Self-propelled, Variable speed				●
Automatic choke				●
Single blade	●	●		
Twin blades	○	○	●	●
Grass bag			●	●
Mulching plug			●	●
Side-discharge guard & chute	●	●	○	○

● = standard equipment

○ = optional accessory; see your Honda lawn mower dealer.

Maintenance

Fuel	Unleaded gasoline with a pump octane rating of 86 or higher	page 14
Engine Oil	SAE 10W-30, API SJ or later	page 12
Spark Plug Type	NGK - BP5RES	page 13
Maximum Governed Speed	2,950 ~ 3,100 rpm *	Shop manual
Smart Drive Cable	Adjust for proper operation.	Shop manual
Throttle Cable (PDA, SDA)	Adjust for proper choke operation and maximum governed speed.	Shop manual
Blade Bolt Torque	36 ~ 43 ft-lb (49 ~ 59 N•m)	page 11

* Do not try to increase the engine speed above the maximum governed speed; the blades could fracture and come apart.

Transmission Design and Performance

Type	SDA	VKA
Transmission type	Single speed	Variable speed
Ground speeds	2.5 mph (4.0 km/h)	0 ~ 3.6 mph (0 ~ 5.8 km/h)

Dimensions, Weights and Capacities

Model	HRS216K4		HRR216K7	
	PDA	SDA	PDA	VKA
Length	61-1/8 in (1554 mm)	63-7/8 in (1621 mm)	62-1/8 in (1579 mm)	63-3/4 in (1620 mm)
Width	23.0 in (585 mm)		22.9 in (582 mm)	
Overall height	37-3/8 in (948 mm)		38-3/4 in (985 mm)	37-3/4 in (961 mm)
Dry weight	62.2 lb (28.2 kg)	69.4 lb (31.5 kg)	78.3 lb (35.5 kg)	82.5 lb (37.4 kg)
Cutting width	21.0 in (530 mm)			
Cutting heights	1 ~ 3 1/2 in (25 ~ 87 mm)		1-1/8 ~ 4 in (28 ~ 102 mm)	
Fuel tank capacity	0.25 US gal (0.93 ℓ)			
Engine oil capacity	18.6 oz (0.55 ℓ) Refill amount: 12.0 ~ 13.5 oz (0.35 ~ 0.40 ℓ)**			

** Actual amount will vary due to residual oil in the engine. Always use the dipstick to confirm the actual level (see [page 11](#)).

Engine Design and Performance

Model	GCV160
Type	4-stroke, overhead-cam, single-cylinder, air-cooled
Displacement	9.8 cu in (160 cc)
Bore and stroke	2.52 x 1.97 in (64 x 50 mm)
Compression ratio	8.5:1
Ignition system	Transistorized magneto

Tuneup

Spark plug gap	0.028 ~ 0.031 in (0.7 ~ 0.8 mm)	See page 13
Idle speed (PDA, SDA)	1,700 ± 150 rpm	Shop manual
Valve clearance (cold)	Intake: 0.15 ± 0.02 mm Exhaust: 0.20 ± 0.02 mm	Shop manual
Other specifications	No other adjustments needed.	

CONSUMER INFORMATION

REPLACEMENT PARTS, OPTIONAL EQUIPMENT, AND SERVICE ITEMS

Contact an authorized Honda servicing dealer to purchase any of these (or other) Honda Genuine items for your lawn mower.

Replacement Parts

Item	Part Number	Notes
Spark plug	98079-55846	NGK (brand) BPR5ES
Air filter	17211-ZL8-023	Paper
Lower blade	72511-VE1-020	Always use an upper and lower blade on HRR models.
Upper blade	72531-VE2-020	
Low lift blade (HRS)	72511-VG3-000	Replace with above blades for best mulching.
Grass bag (HRR)	81320-VL0-B10	Fabric bag only, no frame
Wheel/tire (HRS)	44710-VG3-000 42710-VG3-B00 42710-VG3-000	Front Rear (SDA) Rear (PDA)
Wheel/tire (HRR)	44710-VL0-L00ZB 42710-VE2-M00ZE 44710-VE2-M00ZD	Front Rear (VKA) Rear (PDA)

Optional Equipment

Item	Part Number	Notes
Spark arrester kit	06180-Z0J-000	Includes spark arrester, ID plate, and screw
Grass discharge chute kit (HRR)	06814-VG4-010	Rear mount side discharge chute
Leaf shredder (HRR)	81560-VG4-000	
Universal lawn mower cover	08P59-VE2-000AH	Custom fitted, waterproof, and breathable

Service Items

Item	Part Number	Notes
SAE 10W-30 engine oil	08207-10W30	1 Quart
No-Spill [®] gas can	06176-1450C	5 gallon
Fuel stabilizer	08732-0001	For short and long term storage
Matte black touch-up paint (aerosol can)	08707-NH105	For handlebar only

DEALER LOCATOR INFORMATION

To find an Authorized Honda Servicing Dealer anywhere in the United States:

Visit www.HondaPowerEquipment.com and click on Dealer Locator.

CUSTOMER SERVICE INFORMATION

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write:

American Honda Motor Co., Inc.

Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847

Or telephone: (770) 497-6400 M-F, 8:30 a.m. - 7:00 p.m. ET

When you write or call, please give us this information:

- Model and serial numbers ([page 17](#))
- Name of the dealer who sold the lawn mower to you
- Name and address of the dealer who services your lawn mower
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem

Honda Publications

These publications will give you additional information for maintaining and repairing your lawn mower.

Shop Manual - This manual covers complete maintenance and overhaul procedures. It is intended to be used by a skilled technician. Available through your Honda dealer or through Helm Inc. at (888) 292-5395 or visit www.HondaPowerEquipment.com and click on Product Manuals.

Parts Catalog - This manual provides complete, illustrated parts lists, and is available through your Honda dealer.

Frequently Asked Questions - The Honda Power Equipment web site provides additional information for users of Honda power equipment. Visit www.HondaPowerEquipment.com and click on FAQs.

DISTRIBUTOR'S LIMITED WARRANTY

Honda Power Equipment

This warranty is limited to the following Honda Power Equipment products when distributed by American Honda Motor Co., Inc., Power Equipment Division, 4900 Marconi Drive, Alpharetta, Georgia 30005-8847, purchased at retail or placed in rental service on or after January 1, 2010.

PRODUCTS COVERED BY THIS WARRANTY	LENGTH OF WARRANTY (from date of original retail purchase)	
	PRIVATE RESIDENTIAL (1)	COMMERCIAL/ RENTAL/INSTITUTIONAL
HRR/HRS Lawn Mowers	36 months	3 months

(1) Private residential: Used in maintaining owner's primary and/or secondary residence. Any other use, including but not limited to informal "for hire" use, is considered commercial/rental/institutional use.

To Qualify for This Warranty:

The product must be purchased in the United States, Puerto Rico, or the U.S. Virgin Islands from American Honda or a dealer authorized by American Honda to sell those products. This warranty applies to the first retail purchaser and each subsequent owner during the applicable warranty time period.

What American Honda Will Repair or Replace Under Warranty:

American Honda will repair or replace, at its option, any part that is proven to be defective in material or workmanship under normal use during the applicable warranty time period. Warranty repairs and replacements will be made without charge for parts or labor. Anything replaced under warranty becomes the property of American Honda Motor Company, Inc. All parts replaced under warranty will be considered as part of the original product, and any warranty on those parts will expire coincident with the original product warranty.

To Obtain Warranty Service:

You must, at your expense, take the Honda Power Equipment product, accessory, replacement part, apparel, or the power equipment on which the accessory or replacement part is installed, and proof of purchase to any Honda Power Equipment dealer in the United States, Puerto Rico, or the U.S. Virgin Islands who is authorized to sell that product, during the dealer's normal business hours. If you are unable to obtain warranty service or are dissatisfied with the warranty service you receive, take the following steps: First, contact the owner of the dealership involved; normally this will resolve the problem. However, if you should require further assistance, write or call the Power Equipment Customer Relations Dept. of American Honda Motor Co., Inc. at the following address:

American Honda Motor Co., Inc.
Power Equipment Customer Relations Dept.
4900 Marconi Drive
Alpharetta, GA 30005-8847 Telephone: (770) 497-6400

Exclusions:

- Any damage or deterioration resulting from the following:
 - Neglect of the periodic maintenance as specified in this manual
 - Improper repair or maintenance
 - Operating methods other than those indicated in this manual
 - The use of non-genuine Honda parts and accessories other than those approved by Honda (other than recommended lubricants and fluids)
 - Exposure of the product to soot and smoke, chemical agents, bird droppings, sea water, sea breeze, salt or other environmental phenomena
 - Collision, fuel contamination or deterioration, neglect, unauthorized alteration, misuse, incorporation or use of unsuitable attachments or parts
 - Natural wear and tear (natural fading of painted or plated surfaces, sheet peeling and other natural deterioration)
- Consumable parts: Honda does not warrant parts deterioration due to natural wear and tear. The parts listed below are not covered by warranty (unless they are needed as a part of another warranted repair):
 - Spark plug, fuel filter, air cleaner element, clutch disc, tire, wheel bearing, recoil starter rope, cable, belt, cutter blade.
 - Lubricant: oil and grease.
- Cleaning, adjustment, and normal periodic maintenance work (carburetor cleaning, engine oil draining, blade sharpening, belt and cable adjustments).
- Any product that has ever been declared a total loss or sold for salvage by a financial institution or insurer.
- Auger and paddle assemblies of snowthrowers, tiller tines of roto-tillers, mower blades and mower deck housings, are specifically not warranted against impact damage, including but not limited to, abrasive damage.

Disclaimer of Consequential Damage and Limitation of Implied Warranties:

American Honda disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Honda Accessories, Replacement Parts, And Apparel

This warranty is limited to Honda Power Equipment parts, accessories, and apparel when distributed by American Honda Motor Co., Inc., 4900 Marconi Drive, Alpharetta, Georgia 30005-8847.

PRODUCTS COVERED BY THIS WARRANTY	LENGTH OF WARRANTY (from date of original retail purchase)	
	PRIVATE RESIDENTIAL	COMMERCIAL/ RENTAL/INSTITUTIONAL
Accessories	12 months	3 months
Replacement parts	6 months	3 months
Apparel	6 months	3 months

To Qualify for This Warranty:

- The accessories, replacement parts, or apparel must be purchased from American Honda, or a dealer, distributor, or distributor's dealer authorized by American Honda to sell those products in the United States, Puerto Rico, and the U.S. Virgin Islands. Parts and Accessories must be purchased for installation on original Honda equipment or engines to be eligible for warranty coverage. Installing parts and accessories on non-Honda products or engines voids this warranty.
- You must be the first retail purchaser. This warranty is not transferable to subsequent owners.

What American Honda Will Repair or Replace Under Warranty:

American Honda will repair or replace, at its option, any Honda Power Equipment accessories, replacement parts, or apparel that are proven to be defective in material or workmanship under normal use during the applicable warranty time period. Anything replaced under warranty becomes the property of American Honda Motor Company, Inc. All parts replaced under warranty will be considered as part of the original product, and any warranty on those parts will expire coincident with the original product warranty.

Accessories and replacement parts installed by a dealer, distributor, or distributor's dealer who is authorized by American Honda to sell them will be repaired or replaced under warranty without charge for parts or labor. If installed by anyone else, accessories and replacement parts will be repaired or replaced under warranty without charge for parts, but any labor charges will be the responsibility of the purchaser. Apparel will be repaired or replaced under warranty without any charge.

To Obtain Warranty Service:

You must, at your expense, take the Honda Power Equipment accessory, replacement part, apparel, or the Honda Power Equipment on which the accessory or replacement part is installed, and proof of purchase to any Honda Power Equipment dealer, distributor, or distributor's dealer in the United States, Puerto Rico, or the U.S. Virgin Islands who is authorized to sell that product, during the dealer's or distributor's normal business hours. If you are unable to obtain warranty service or are dissatisfied with the warranty service you receive, take the following steps: First, contact the owner of the dealership or distributorship involved; normally this will resolve the problem. However, if you should require further assistance, write or call the Power Equipment Customer Relations Department of American Honda Motor Co., Inc. Refer to adjacent column for contact information.

Exclusions:

This warranty does not extend to accessories, parts, or apparel affected or damaged by collision, normal wear, use in an application for which the product was not designed or any other misuse, neglect, incorporation or use of unsuitable attachments or parts, unauthorized alteration, improper installation, or any causes other than defects in material or workmanship of the product. Installing Parts and Accessories on non-Honda products or engines voids this warranty.

Disclaimer of Consequential Damage and Limitation of Implied Warranties:

American Honda disclaims any responsibility for loss of time or use of the product, or the power equipment on which the product is installed, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written warranty. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

EMISSION CONTROL SYSTEM WARRANTY

Your new Honda Power Equipment engine complies with the U.S. EPA, Environment Canada, and State of California emission regulations (models certified for sale in California only). American Honda Motor Co., Inc. provides the emission warranty coverage for engines in the United States and its territories. Honda Canada Inc. provides the emission warranty for engines in the 13 provinces and territories of Canada. In the remainder of this Emission Control System Warranty, American Honda Motor Company Inc. and Honda Canada Inc. will be referred to as Honda.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

CALIFORNIA

The California Air Resources Board and Honda are pleased to explain the emission control system warranty on your Honda Power Equipment engine. In California, new spark-ignited small off-road equipment engines must be designed, built, and equipped to meet the State's stringent anti-smog standards.

OTHER STATES, U.S. TERRITORIES, AND CANADA

In other areas of the United States and in Canada, your engine must be designed, built, and equipped to meet the U.S. EPA and Environment Canada emission standards for spark-ignited engines at or below 19 kilowatts. Specific Honda products that do not meet the California emissions regulations can be identified by a "Not for sale in California" decal.

ALL OF THE UNITED STATES AND CANADA

Honda must warrant the emission control system on your power equipment engine for the period of time listed below, provided there has been no abuse, neglect, or improper maintenance of your power equipment engine. Where a warrantable condition exists, Honda will repair your power equipment engine at no cost to you including diagnosis, parts, and labor.

Your emission control system may include such parts as the carburetor or fuel injection system, the ignition system, and catalytic converter. Also included may be hoses, connectors, and other emission-related assemblies. (See adjacent table for additional covered parts).

OWNER'S WARRANTY RESPONSIBILITY:

As the power equipment engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Honda recommends that you retain all receipts covering maintenance on your power equipment engine, but Honda cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the power equipment engine owner, you should however be aware Honda may deny you warranty coverage if your power equipment engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

You are responsible for presenting your power equipment engine to a Honda Power Equipment dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your emissions warranty rights and responsibilities, you should contact the Honda Office in your region:

American Honda Motor Co., Inc. Power Equipment Customer Relations 4900 Marconi Drive Alpharetta, Georgia 30005-8847 Telephone: (888) 888-3139 Email: powerequipmentemissions @ahm.honda.com	or	Honda Canada Inc. Power Equipment Customer Relations Visit www.honda.ca Telephone: (888) 946-6329
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WARRANTY COVERAGE:

Honda power equipment engines sold in the United States and Canada are covered by this warranty for a period of two years from the date of delivery to the original retail purchaser or the length of the Honda Distributor's Limited Warranty, whichever is longer. This warranty is transferable to each subsequent purchaser for the duration of the warranty period.

If any emission-related part on your engine is defective, the part will be repaired or replaced by Honda without charge for diagnosis, parts, or labor. All defective parts replaced under this warranty become the property of Honda. A list of warranted parts is in the adjacent column. Normal maintenance items, such as spark plugs and filters, that are on the warranted parts list are warranted up to their required replacement interval only.

Honda will also replace other engine components damaged by a failure of any warranted part during the warranty period.

Only Honda approved replacement parts may be used in the performance of any warranty repairs and must be provided without charge to the owner. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system. If such a replacement part is used in the repair or maintenance of your engine, and an authorized Honda dealer determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied. If the part in question is not related to the reason your engine requires repair, your claim will not be denied.

TO OBTAIN WARRANTY SERVICE:

You must, at your own expense, take your Honda Power Equipment engine or the product on which it is installed, along with your sales registration card or other proof of original purchase date, to any Honda Power Equipment dealer who is authorized by Honda to sell and service that Honda product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you are unable to obtain emission warranty service or are dissatisfied with the warranty service you received, contact the owner of the dealership involved. Normally this should resolve your problem. However, if you require further assistance, contact the Honda office in your region. Refer to adjacent column for contact information.

EXCLUSIONS:

Failures other than those resulting from defects in material or workmanship are not covered by this warranty. This warranty does not extend to emission control systems or parts that are affected or damaged by owner abuse, neglect, improper maintenance, misuse, misfueling, improper storage, collision, the incorporation of, or use of, unsuitable attachments, or the unauthorized alteration of any part.

This warranty does not cover replacement of expendable maintenance items made in connection with required maintenance service after the item's first scheduled replacement as listed in the maintenance section of the product Owner's Manual, such as: spark plugs and filters.

DISCLAIMER OF CONSEQUENTIAL DAMAGE AND LIMITATION OF IMPLIED WARRANTIES:

American Honda Motor Co., Inc. and Honda Canada disclaim any responsibility for incidental or consequential damages such as loss of time or the use of the power equipment, or any commercial loss due to the failure of the equipment; and any implied warranties are limited to the duration of this written warranty. This warranty is applicable only where the California, U.S. EPA or Environment Canada emission control system warranty regulation is in effect.

EMISSION CONTROL SYSTEM WARRANTY PARTS:

SYSTEMS COVERED BY THIS WARRANTY:	PARTS DESCRIPTION:
Fuel Metering	Carburetor assembly, (includes starting enrichment system), Engine temperature sensor, Engine control module, Fuel regulator, Intake manifold
Evaporative	Fuel tank, Fuel cap, Fuel hoses, Vapor hoses, Carbon canister, Canister mounting brackets, Fuel strainer, Fuel cock, Fuel pump, Fuel hose joint, Canister purge hose joint
Exhaust	Catalyst, Exhaust manifold
Air Induction	Air filter housing, Air filter element*
Ignition	Flywheel magneto, Ignition pulse generator, Crankshaft position sensor, Power coil, Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug*
Crankcase Emission Control	Crankcase breather tube, Oil filler cap
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.

Note: This list applies to parts supplied by Honda and does not cover parts supplied by the equipment manufacturer. Please see the original equipment manufacturer's emissions warranty for non-Honda parts.

* Covered up to the first required replacement only. See the *MAINTENANCE SCHEDULE* on [page 9](#).

NOTES

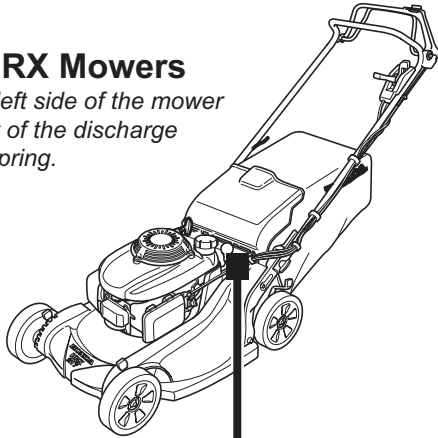
PRODUCT REGISTRATION

PLEASE COMPLETE and MAIL or REGISTER ONLINE

www.HondaPowerEquipment.com

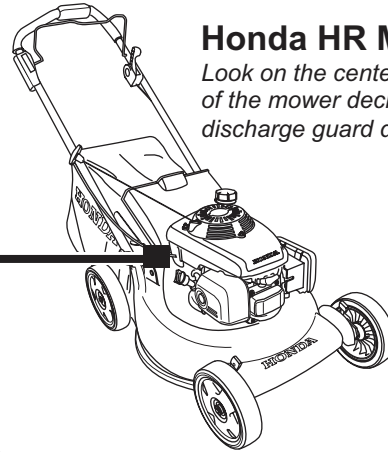
Honda HRX Mowers

Look on the left side of the mower deck, in front of the discharge guard door spring.



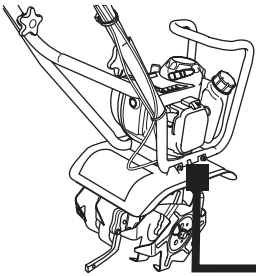
Honda HR Mowers

Look on the center rear section of the mower deck, in front of the discharge guard door spring.



Honda Mini-Tiller

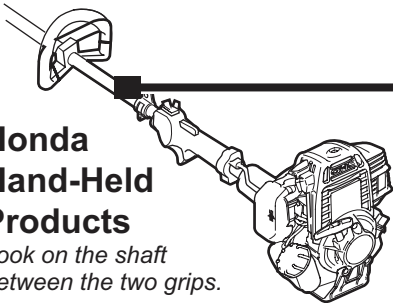
Look on the right side of the tine shield.



MODEL: XXXX XXXX
SERIAL NO: XXXX-XXXXXXX

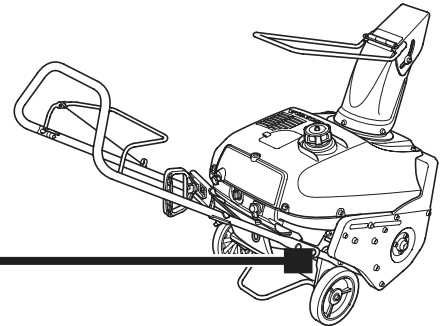
Honda Hand-Held Products

Look on the shaft between the two grips.



Honda Snowthrowers

Look between the wheels on the lower frame.



Print the serial number here.

Dear Honda Customer,
Thank you for choosing Honda.

To ensure you receive current product information and service updates, please take a moment to register your product.

You may complete and mail this postage-paid registration card or register online at www.HondaPowerEquipment.com

Failure to register this product does not diminish the purchaser's warranty rights.

Serial number

Serial number input field

* Dealer Store number

Dealer Store number input field

* Dealer Store ZIP code

Dealer Store ZIP code input field

*If available

Owner's Last Name

Owner's Last Name input field

First Name

First Name input field

Company Name (commercial/rental users)

Company Name input field

Telephone

Telephone input field

Address

Address input field

City

City input field

State

State input field

ZIP Code

ZIP Code input field

E-mail address

E-mail address input field

Date of Purchase

Date of Purchase input field (MONTH, DAY, YEAR)

Application (check one)

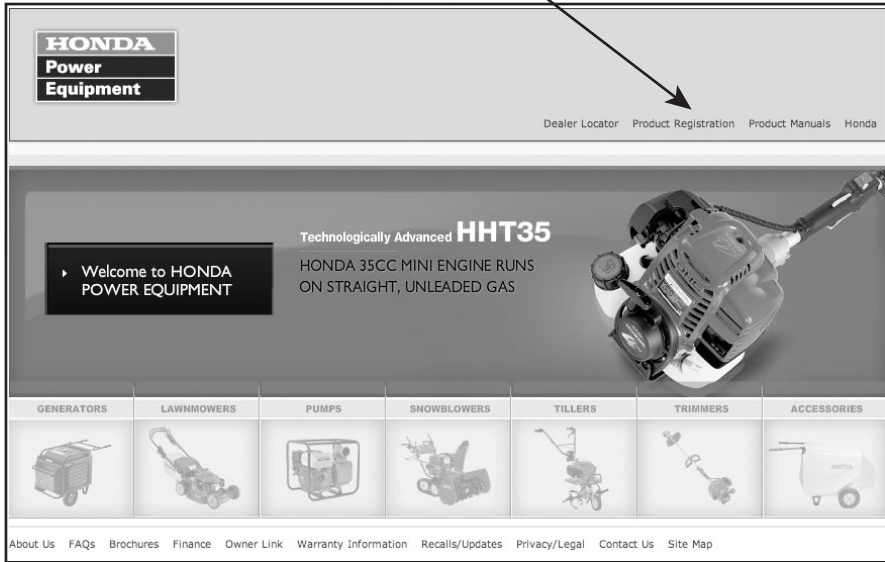
Commercial (professional use)

Non-commercial (private, homeowner use)

Rental (for-hire use)

1. Go www.hondapowerequipment.com to register your unit.

2. Click on **Product Registration**.



HONDA Power Equipment Close Window

Product Registration

Congratulations on the purchase of your new Honda Product! Thank you for registering online.

Please enter your registration information below.

Your information will remain confidential. It will not be released to any other company or organization.

If you need to change your name, address, phone number or ownership information, please click [here](#).

◊ = required field

Prefix ◊ First Name M.I. ◊ Last Name Suffix

◊ Address Line 1:

Address Line 2:

◊ City: ◊ State: ◊ Zip Code:

Phone (10 digits no spaces):

◊ Product Serial Number: - [Where can I find my serial number?](#)

◊ Date of Purchase (mm/dd/yyyy) / /
Product purchase date must be no earlier than year 2000.

◊ Product Use:

◊ Location Purchased:

◊ E-mail Address:

◊ Confirm E-mail Address:

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3. Complete the required information and click **Submit**.

It's that simple! You'll receive e-mail confirmation of your registration.

Product Registration



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