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 19) 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. American Honda Motor Co., 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.

A DANGER

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



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



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

00X31-VL0-U200

31VL0U20

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

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HRS216PDA HRS216SDA K3 HRR216PDA

HRR216TDA





HONDA

OWNER'S MANUAL HRS216PDA • HRS216SDA HRR216PDA • HRR216TDA



WARNING:

A

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

CONTENTS*

^{*} For more information regarding cable adjustment, and how to mow your lawn, see FAQs at www.hondapowerequipment.com/faq.htm

LAWN MOWER SAFETY

Most accidents with walk-behind mowers can be prevented if you follow all instructions in this manual and on the mower. The most common hazards, according to accident statistics, 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

YOUR CHILDREN'S SAFETY 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 accidents 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.

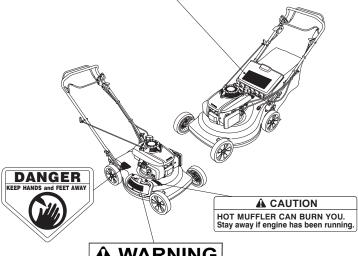


AVOID SERIOUS INJURY OR DEATH.

- Follow all instructions in Owner's Manual.
 Go across slopes, not up and down.
 Do not mow when children or others are around.
- Look down and behind, before and
- while moving backwards. Keep safety devices (guards, shields, switches, etc.) in place and working.

OBJECTS THROWN BY BLADE CAN CAUSE SERIOUS INJURY.

- Inspect area and remove
- debris before mowing.
 Keep children and others away.
 Wear eye protection.
- Do not operate unless bag or chute are installed or guard is in place.



WARNING

TO PREVENT INJURY Do not operate unless bag or chute are installed or guard is in place.

SETTING UP YOUR NEW MOWER

Unpacking

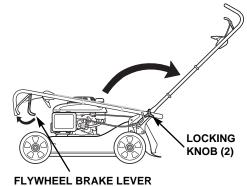
Remove all the cardboard from around the handlebar.

Handlebar Setup

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

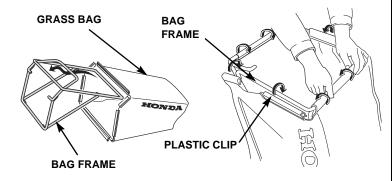
Depress the flywheel brake lever while raising the handlebar.

Select a desired handlebar height and tighten the locking knobs securely.

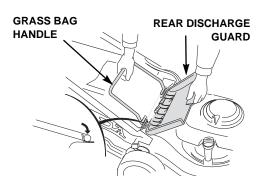


Grass Bag Assembly (HRR)

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.



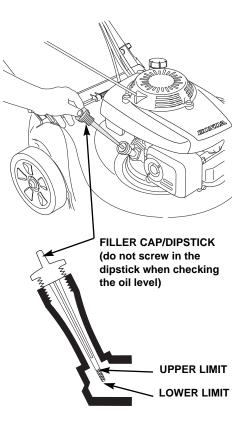
Engine Oil

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 engine with oil. If the engine is overfilled, the excess oil may get transferred to the air cleaner housing and air cleaner.

After filling the engine with oil, remove the hang tag near the recoil starter grip that says "The engine has no oil. A container of oil is in the shipping box."

Fuel

Refer to page 13.

Before Operation

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)

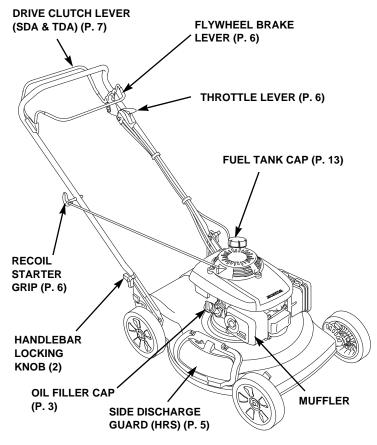
You can also find additional information on the Honda power equipment web site. Visit www.hondapowerequipment.com/faq.htm

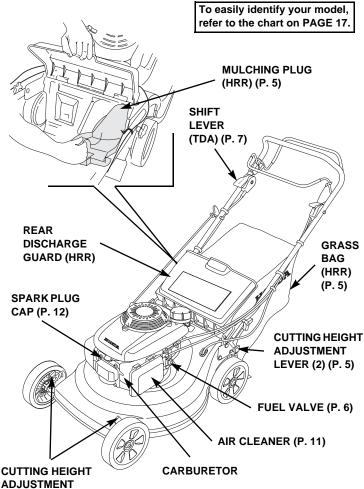
Please register your lawn mower

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 included registration card, or go online to www.hondapowerequipment.com and click on Product Registration Owner Link™.

CONTROL LOCATIONS





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.

A 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 9).
- Check that the blade bolts are tight (page 10).
- · Check that all nuts, bolts, screws are tightened.

Check the Engine:

- Check the air cleaner (page 11) and oil level (page 11).
- Check the fuel level (page 13). 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.

LEVERS (P. 5)

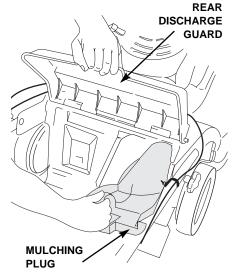
GET THE MOWER READY

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.

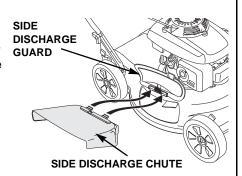
Remove the mulching plug when using a grass bag.



Side Discharge Chute (HRS)

To discharge clippings to the side, install the side discharge chute as shown.

Remove the side discharge chute when mulching.



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.

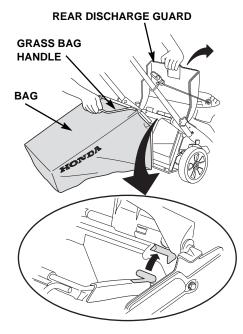
Grass bag replacement is explained on page 10.

Installation

- Raise the discharge guard and hook the grass bag onto the mower deck as shown.
- 2. Release the discharge guard to secure the grass bag.

Removal

- Raise the rear discharge guard, grasp the grass bag handle and remove the grass bag.
- 2. Release the rear discharge guard.
- 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.



Cutting Height Adjustment

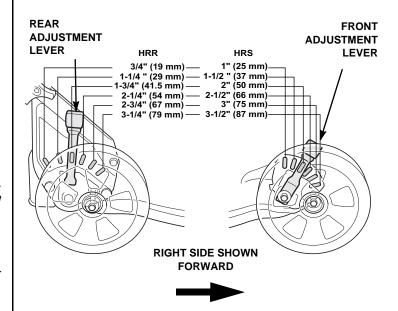
The cutting height figures are approximate. The actual height of cut grass will vary with lawn and soil conditions.

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.



OPERATION

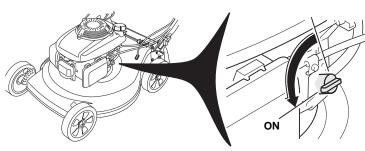
MOWING PRECAUTIONS

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.

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.





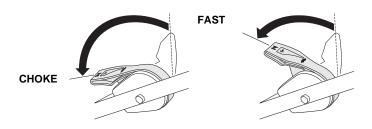
- 1. Turn the fuel valve to the ON position.
- 2. Move the throttle lever to the proper starting position.

COLD ENGINE:

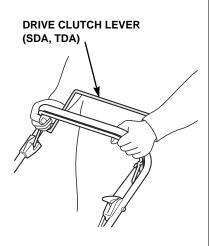
Move the throttle lever to the CHOKE position.

WARM ENGINE:

Move the throttle lever to the FAST position.



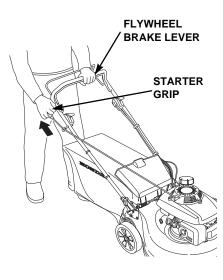
 SDA, TDA: Release the drive clutch lever to prevent the mower from moving forward when you operate the starter.



- Pull back on the flywheel brake lever and hold it against the handlebar.
- 5. Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.

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

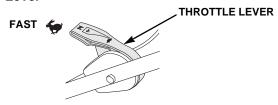
Continue to hold the flywheel brake lever against the handlebar; the engine will stop if you release the lever.



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



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.

Flywheel Brake Lever

The 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 against the handlebar to keep the engine running and the blade(s) rotating.

Release the lever to stop the engine and stop blade rotation.

FLYWHEEL BRAKE LEVER

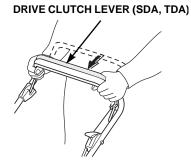


Drive Clutch Lever (SDA, TDA)

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

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

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

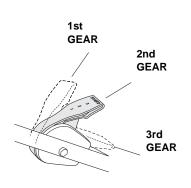


Operate the drive clutch lever with a quick and complete motion, so the drive clutch is either fully engaged or fully released. Hold the drive clutch lever against the handlebar during self-propelled mowing. This will help to extend the service life of the clutch mechanism.

Shift Lever (TDA)

Use the shift lever to adjust the forward speed of the mower. Do not use the throttle lever; the throttle lever must be kept in the FAST position for the best mowing performance.

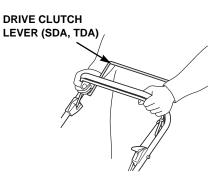
You may move the shift lever anytime; however, if the mower is pulling hard, release the drive clutch lever between shifts for smooth operation.



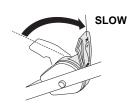
1st and 2nd gears are recommended for maximum mowing performance. 3rd gear should be used to transport the mower.

STOPPING THE ENGINE

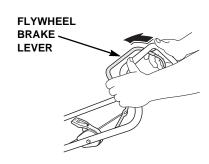
1. Release the drive clutch lever (SDA, TDA). DRIVE CLUTCH LEVER (SDA, TDA).



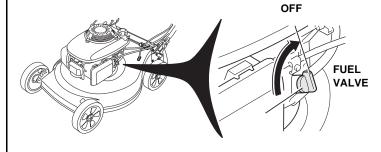
2. Move the throttle lever to the SLOW position.



 Release the flywheel brake lever to stop the engine and blade rotation.



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



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.

A 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 drive clutch lever 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 (page 12), and check for damage. Striking objects may damage the blade(s), bend the crankshaft, and/or break the mower deck or other components. Vibration usually indicates serious trouble.

A 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 19) does not cover parts damaged by accident or 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 flywheel brake lever to stop the blade(s) before reaching areas with gravel, loose stones, or landscaping material.

SERVICING YOUR LAWN MOWER

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

A 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.

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.

A 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.

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, genuine Honda parts or their equivalents for repair and replacement.

MAINTENANCE SCHEDULE

Interval	Item	
Before each use	Inspect the blade(s) (page 9) Check the blade torque (page 10) Check the grass bag (HRR) (page 10) Check the engine oil level (page 11) Check the air cleaner (page 11)	
First month or 5 hours	Change the engine oil (page 11)	
Every year or 25 hours	Clean the air cleaner filter ¹ (page 11)	
Every 50 hours	Change the engine oil ¹ (page 11)	
Every 100 hours	Inspect-adjust the spark plug (page 12) Clean-check the spark arrester (page 12) Adjust the throttle cable ² Check operation of the flywheel brake (page 12) Check the flywheel brake pad ² Grease the pinion gears ²	
Every 150 hours	Replace the air cleaner filter ¹ (page 11) Replace the spark plug (page 12) Adjust the valve clearance ² Adjust the idle speed ² Clean the fuel tank and filter ²	
After every 250 hours	Clean the combustion chamber ²	
Every 2 years	Check the fuel line and replace if necessary ²	

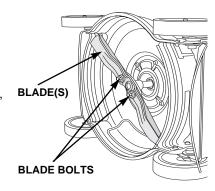
- 1. Service more frequently when used in dusty areas.
- These items should be serviced by an authorized Honda servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.

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

BLADE(S)

Inspection

- Turn the fuel valve OFF (page 7). Disconnect the spark plug cap from the spark plug (page 12).
- Tilt the mower to the right, so the air cleaner side is up. This will help to prevent fuel leakage and hard starting.
- 3. Inspect the blade(s) for wear and damage.



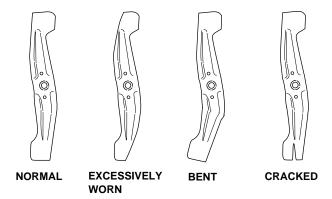
A WARNING

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 the blade(s) are bent, take the lawn mower to an authorized Honda servicing dealer for inspection.

4. A torque wrench must always be used when installing the blade(s). Check that the blade bolts are tight.

Removal and Installation

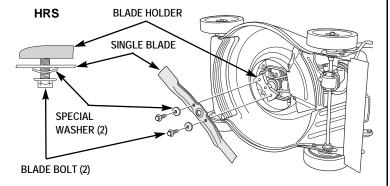
If you remove the blade(s) for sharpening or replacement, you will need a torque wrench for installation. Wear heavy gloves to protect your hands.

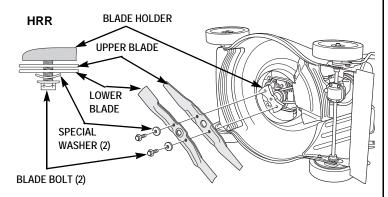
BLADE SHARPENING: To avoid weakening the blade(s) or causing imbalance or poor cutting, the blade(s) should be sharpened by trained staff at an authorized Honda servicing dealer.

BLADE REPLACEMENT: Use genuine Honda replacement blade(s) or their equivalent (page 18).

Removal

- Turn the fuel valve OFF (page 7). Disconnect the spark plug cap (page 12) from the spark plug, then tilt the mower to the right side, so the air cleaner 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 bolts.

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

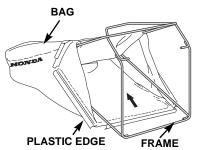
Wash the bag with a garden hose, and allow it to dry completely before use; a wet bag will clog quickly.

Replacement

Replace a worn or damaged bag with a Honda replacement bag or its equivalent (page 18).

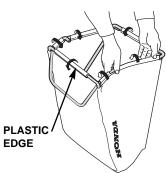
Bag Removal

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



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

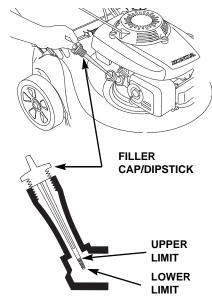
Engine Oil Level Check

- 1. Unscrew and remove the filler cap/dipstick and wipe it clean.
- 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.

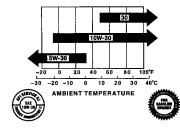
Screw in the filler cap/dipstick securely.



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.

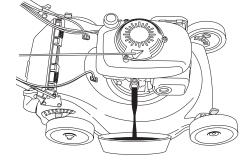
The SAE oil viscosity and service classification are in the API label on the oil container. Honda recommends API SERVICE category SJ or later oil with the ILSAC "starburst" certification mark.

Engine Oil Change

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

- 1. Turn the fuel valve OFF (page 7). This will reduce the possibility of fuel leakage.
- 2. Wipe the oil filler area clean, then remove the oil filler cap/dipstick.
- Place a suitable container next to the mower to catch the used oil, then tilt the mower on its right side.

The used oil will drain through the filler neck. Allow the oil to drain completely.

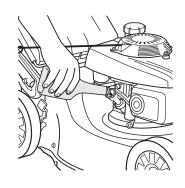


Please dispose of used motor oil and the containers in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it on the ground, or pour it down a drain.

 Fill with the recommended oil. Do not overfill. Allow a couple of minutes for the oil to settle in the engine, 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.

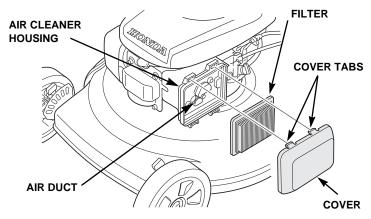


Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor, reducing engine performance. If you operate the mower in very dusty areas, clean the air cleaner more often than specified in the MAINTENANCE SCHEDULE (page 9).

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 19).



- 1. Press down on the cover tabs and remove the cover.
- 2. Remove the filter from the air cleaner housing.
- 3. Inspect the filter, and replace it if damaged.
- 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.
- 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

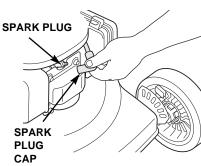
Recommended Spark Plug: NGK - BPR6ES

NOTICE

Incorrect spark plugs can cause engine damage.

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

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



SPARK PLUG

WRENCH

0.028 ~ 0.031 in

 $(0.7 \sim 0.8 \text{ mm})$

SEALING

WASHER

- 2. Remove the spark plug with a 13/16 in (21 mm) spark plug wrench.
- Inspect the spark plug.
 Replace it if the electrodes are worn, or if the insulator is cracked, chipped, or fouled.
- 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.
- Install the spark plug carefully, by hand, to avoid cross-threading.
- 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

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

NOTICE

spark plug seats.

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

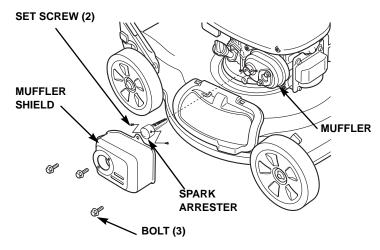
7. Install the spark plug cap on the spark plug.

Spark Arrester (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 18 for part numbers.

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

- Allow the engine to cool, then remove the bolts from the muffler shield. Remove the muffler shield.
- 2. Remove the two set screws and remove the spark arrester.
- 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.
- Installation is the reverse of removal. Tighten all hardware securely.



Flywheel Brake

Start the engine outdoors and move the throttle to FAST. Release the flywheel brake lever; the engine should stop quickly. If it does not, take your mower to an authorized Honda servicing dealer for repair.

FUEL SYSTEM

Refueling

Honda recommends using a No-Spill® gas can (page 18).

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

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. 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.

A 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.

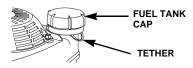
To refuel, remove the fuel tank cap, and fill the tank with gasoline to the bottom of the filler neck.

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 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 19).

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 (page 7). 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.

The handlebar can be folded so the mower will take up less space (page 14).

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

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.

Before washing the underside of the mower deck, be sure the fuel valve is in the OFF position (page 7). Disconnect the spark plug cap (page 12). 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).

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.
- With the mower in an upright position, start the engine outdoors, engage the blade control lever, and let the engine run until it reaches normal operating temperature to evaporate any water remaining on the engine.
- 3. Stop the engine and allow it to cool.
- 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

Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting, and it leaves gum deposits that clog 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.

The *DISTRIBUTOR'S LIMITED WARRANTY* (page 19) does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

You can extend fuel storage life by adding a fuel stabilizer that is formulated for that purpose, or you can avoid fuel deterioration problems by draining all the fuel from the fuel tank and carburetor.

Adding a Fuel Stabilizer

When adding a fuel stabilizer (page 18), fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.

- 1. Add fuel stabilizer following the manufacturer's instructions.
- After adding a fuel stabilizer, run the engine outdoors for 10 minutes to be sure that the treated gasoline has replaced the untreated gasoline in the carburetor.
- 3. Turn the engine OFF and turn the fuel valve to the OFF position.

Draining the Carburetor and Fuel Tank

 Make sure the fuel valve is OFF. Remove the carburetor drain bolt with a 10 mm wrench, and drain the fuel from the carburetor bowl into an approved container.

A WARNING

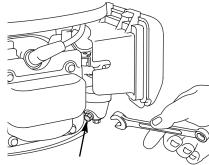
Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

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

If you only need to drain the carburetor, skip to step 3.

- To drain the fuel tank, turn the fuel valve ON (page 6). This will allow fuel in the fuel tank to drain out through the carburetor bowl.
- 3. After the fuel is completely drained, reinstall the drain bolt.



DRAIN BOLT

Engine Oil

Change the engine oil (page 11).

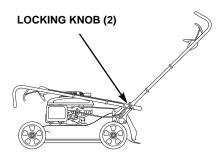
Engine Cylinder

- 1. Remove the spark plug (page 12).
- 2. Pour a tablespoon (5 ~ 10 cc) of clean engine oil into the cylinder to keep it from rusting.
- 3. Engage the flywheel brake lever and pull the starter rope several times to distribute the oil in the cylinder.
- 4. Reinstall the spark plug.
- Engage the flywheel brake lever and pull the starter rope slowly until resistance is felt, then return the starter grip gently. This will close the valves so moisture cannot enter the engine cylinder.

Handlebar Folding

The handlebar can be folded for storage or transport by loosening the handlebar locking knobs.

 Remove the grass bag (HRR) if installed. You can place it on top of the engine, with the bag opening to the front. Loosen the handlebar locking knobs. Press each side of the lower handlebar outward, then swing the handlebar upward. Prevent the cables from getting pinched or kinked.



When unfolding the handlebar, be sure to tighten the locking 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.

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.

Honda recommends using a universal lawn mower cover (page 18).

REMOVING FROM STORAGE

Check your mower as described in BEFORE OPERATION (page 4).

If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

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	Move the throttle lever to the CHOKE position, unless the engine is warm (page 6).
Out of fuel	Refuel (page 13).
Bad fuel; mower stored without treating or draining gasoline, or refueled with bad gasoline	Drain the fuel tank and carburetor (page 14). Refuel with fresh gasoline (page 13).
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 for repair.

Loss of Power

Possible Cause	Correction
Throttle not set to FAST	Move the throttle to FAST (page 6).
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 13).
Air filter is clogged	Clean or replace the air filter (page 11).
Bad fuel; mower stored without treating or draining gasoline, or refueled with bad gasoline	Drain the fuel tank and carburetor (page 14). Refuel with fresh gasoline (page 13).
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the mower to an authorized Honda servicing dealer for repair.

Vibration

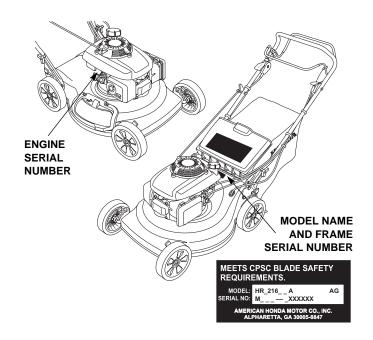
Possible Cause	Correction
Grass and debris lodged under the mower deck	Clean out the mower deck (page 13).
Blade(s) loose, bent, damaged, or unbalanced by improper sharpening	Tighten loose blade bolts (page 10). If blade(s) are found to be bent or damaged, take the lawn mower to an authorized Honda servicing 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	Move the throttle lever to the FAST position (page 6).
Mower is moving too fast for lawn conditions	Walk slower (PDA). Release the drive clutch lever and push slower (SDA, PDA). Shift to a lower gear (TDA). (page 7).
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 10).
Mower deck is clogged	Clean out the mower deck (page 13).
Blade(s) dull, worn, or damaged	Sharpen or replace the blade(s) if necessary (page 9).
Wrong blade(s) installed	Install correct blade(s) (page 18).

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 genuine Honda 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 to 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)

The Air Index Information hang tag/label must remain on the lawn mower until it is sold. Remove the hang tag before operating the lawn mower.

SPECIFICATIONS

FEATURES

Model	HRS	3216	HR	R216
Туре	PDA	SDA	PDA	TDA
Push	•		•	
Self-propelled, 1-speed		•		
Self-propelled, 3-speed				•
Single blade	•	•		
Twin blades	O	O	•	•
Grass bag	•	O	•	•
Mulching plug			•	•
Side-discharge guard & chute	•	•	O	•

■ = standard equipment ○ = optional accessory (page 18); see your Honda lawn mower dealer.

FRAME

Model	HRS216		HRR216	
Туре	PDA	SDA	PDA	TDA
Length		63 7/8 in (1621 mm)		
Width	23.0 in (585 mm)			
Overall height	37-3/8 in (948 mm)		38 1/4 in (970 mm)	
Dry weight	62.2 lb (28.6 kg)	69.4 lb (31.9 kg)	75.0 lb (34.0 kg)	83.1 lb (37.7 kg)
Cutting width	21.0 in (530 mm)			
Cutting heights	1 ~ 3 ½ in (25 ~ 87 mm)		3/4 ~ 3 ¼ in (19 ~ 79 mm)	
Fuel tank capacity	0.25 US gal (.93 ℓ)			
Engine oil capacity	0.58 US qt (0.55ℓ)			

ENGINE

Model	GCV160	
Engine 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	

MAINTENANCE

Fuel	Unleaded gasoline with a pump octane rating of 86 or higher	See page 13.
Engine oil	SAE 10W-30, API SJ or later * Refill amount: 12.0 ~ 13.5 oz (0.35 ~ 0.40 ℓ)	See page 11.
Spark plug type	NGK - BPR6ES	See page 12.
Maximum governed speed	2,950 ~ 3,100 rpm	See shop manual.
Throttle cable	Adjust for proper choke operation and maximum governed speed.	See shop manual.
Blade bolt torque	36 ~ 43 ft-lb (49 ~ 59 N•m)	See page 10.

^{*} Approximate value. Actual amount will vary due to residual oil remaining in the engine. Always check the level using the dipstick (see page 11).

TRANSMISSION

Туре	SDA	TDA
Transmission type	Single speed	3-speed
Ground speeds	2.5 mph (4.0 km/h)	1st: 1.7 mph (2.8 km/h) 2nd: 2.6 mph (4.2 km/h) 3rd: 3.2 mph (5.2 km/h)

TUNEUP

Spark plug gap	0.028 ~ 0.031 in (0.7 ~ 0.8 mm)	See page 12.
Idle speed	1,700 ± 150 rpm	See shop manual.
Valve clearance (cold)	Intake: 0.15 ± 0.02 mm Exhaust: 0.20 ± 0.02 mm	See 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) genuine, original Honda items for your lawn mower.

Model	Item	Part Number	Standard	Accessory
	Grass bag kit (Bag, frame, and blades)	06813-VG3-020		•
	Grass bag (Fabric bag only)	81320-VG3-000		•
HRS	Lower mulching high-lift blade	72511-VE1-020		•
пкэ	Upper mulching blade	72531-VE2-020		•
	Low-lift blade *	72511-VG3-000	•	
	Side discharge chute	81211-VG3-010ZA	•	
	Grass bag (Fabric bag only)	81320-VL0-B00	•	
	Upper mulching blade * *	72531-VE2-020	•	
HRR	Lower mulching high-lift blade * *	72511-VE1-020	•	
пкк	Side discharge chute kit	06814-VG4-010		•
	Mulching plug	76266-VG4-000ZB	•	
	Leaf shredder	81560-VG4-000		•
	Spark plug (NGK: BPR6ES)	98079-56846	•	
	Air filter	17211-ZL8-003	•	
		18350-ZL8-000		•
All Spa	Spark arrester parts	18356-ZL8-000		•
		90055-ZE1-000		•
	Fuel stabilizer	08732-0001		•
	10W-30 Engine oil	08207-10W30		•
	No-Spill gas can 5 gal. (CARB approved)	06176-1450		•
	Universal lawn mower cover	08P59-VE2-000AH		•

- * HRS models come standard with a single low-lift blade. For best mulching, remove the single blade and install an upper mulching blade and a lower mulching high-lift blade.
- ** Always use an upper and lower blade on HRR models.

DEALER LOCATOR INFORMATION

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

Visit our website:

www.hondapowerequipment.com

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 16)
- 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

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 equipment. Visit www.hondapowerequipment.com

DISTRIBUTOR'S LIMITED WARRANTY

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.

PRODUCTS COVERED BY THIS WARRANTY	LENGTH OF WARRANTY (from date of original retail purchase)	
	Noncommercial/ Nonrental	Commercial/ Rental
HRS - HRR Lawn Mowers	36 months	3 months

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 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 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, at your expense, 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 Department of American Honda Motor Co., Inc.

American Honda Motor Co., Inc. Power Equipment Customer Relations Dept. 4900 Marconi Drive Alpharetta, GA 30005-8847

Telephone: (770) 497-6400

Exclusions:

This warranty does not extend to parts affected or damaged by accident and/or collision, normal wear, fuel contamination or deterioration, 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, or any causes other than defects in material or workmanship of the product.

The 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.

ACCESSORIES, REPLACEMENT PARTS, AND APPAREL WARRANTY

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)	
	Noncommercial/Nonrental	Commercial/Rental
Accessories	12 months	3 months
Replacement Parts	6 months	3 months
Apparel	6 months	3 months

To Qualify for this Warranty:

- 1. 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.
- 2. 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 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 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 take the Honda Power Equipment accessory, replacement part, apparel or the power equipment on which the accessory or replacement part is installed, and proof of purchase, at your expense, to any Honda Power Equipment dealer in the United States, Puerto Rico, or the U.S. Virgin Islands who is authorized to service 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 Department of American Honda Motor Co., Inc. Refer to page 19 for contact information.

Exclusions:

This warranty does not extend to accessories, parts, or apparel affected or damaged by accident and/or 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.

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, 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. 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 utility and lawn and garden 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.

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.

Manufacturer's Warranty Coverage:

The 1995 and later power equipment engines are warranted for two years. If any emission-related part on your engine is defective, the part will be repaired or replaced by Honda.

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 that 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 warranty rights and responsibilities, you should write or call the Honda office in your region.

American Honda Motor Co., Inc. Power Equipment Customer Relations 4900 Marconi Drive Alpharetta, Georgia 30005-8847 Telephone: (770) 497-6400 Honda Canada Inc. Power Equipment Customer Relations 715 Milner Avenue Toronto, ON M1B 2K8 Telephone: (888) 946-6329

Warranty Coverage:

Honda power equipment engines manufactured after January 1, 1995 and sold in the State of California, and U.S. EPA certified engines manufactured on or after September 1, 1996 and sold in all of the United States, and Canadian certified engines manufactured on or after January 1, 2005 are covered by this warranty for a period of two years from the date of delivery to the original retail purchaser. This warranty is transferable to each subsequent purchaser for the duration of the warranty period.

Warranty repairs will be made without charge for diagnosis, parts or labor. All defective parts replaced under this warranty become the property of Honda. Warranted parts are listed under *Emission Control System Warranty Parts*. 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 is also liable for damages to other engine components caused 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 take your Honda Power Equipment engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, 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 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, write or call the Power Equipment Customer Relations Department of American Honda Motor Co., Inc. Refer to page 19 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 which are affected or damaged by owner abuse, neglect, improper maintenance, misuse, misfueling, improper storage, accident and/or collision, the incorporation of, or any use of, any add-on or modified parts, 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 services 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 Inc. 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:

PARTS DESCRIPTION:
Carburetor assembly, (includes starting enrichment system), Engine temperature sensor, Engine control module, Fuel regulator, Intake manifold
Fuel tank, Fuel cap, Fuel hoses, Vapor hoses, Carbon canister, Canister mounting brackets, Fuel strainer, Fuel cock, Fuel pump, Fuel hose joint, Seal cap, Canister purge hose joint
Catalyst, Exhaust manifold
Air filter housing, Air filter element*, Crankcase breather tube
Flywheel magneto, Ignition pulse generator, Crankshaft position sensor, Power coil, Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug*
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.

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