Owner's Manual
Riding Mower
H3011 • H3011H
Thank you for purchasing a Honda riding mower.

This manual describes operation and maintenance of the Honda H3011 (manual transmission) and H3011H (hydrostatic transmission) riding mower, type SA and HSA.

Information in this manual is based on the H3011SA model with Mechanical Auto-clutch Transmission (MAT) except as noted. The noted areas apply to the H3011HSA model with Hydrostatic Transmission (HST).

All information in this manual is based on the latest product information available at the time of printing.

Honda Motor Co., Ltd. reserves the right to make changes at any time without notice and without incurring any obligation.

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This manual is considered a permanent part of the riding mower and it must stay with the riding mower if resold.

You can purchase an optional, U.S.D.A. qualified spark arrester for this product from your authorized Honda Power Equipment dealer. Spark arresters are required in some areas; check local laws and regulations before operating this Honda product.

READ THIS OWNER'S MANUAL CAREFULLY. Pay special attention to these symbols and any instructions that follow:

- **DANGER** — Indicates severe personal injury or death WILL result if instructions are not followed.

- **WARNING** — Indicates a strong possibility of severe personal injury or death if instructions are not followed.

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

- **IMPORTANT NOTICE** — Indicates that equipment or property damage can result if instructions are not followed.

**NOTE:** Gives helpful information.

Honda riding mowers are designed to give safe and dependable service if operated according to instructions. Operating this riding mower requires special effort on your part to ensure your safety and the safety of others.

**WARNING:** Using this product for a purpose not intended may cause injury or property damage. Use only for mowing (cutting) grass, and for bagging cut grass when equipped with an optional grass catcher.

Read and understand this Owner’s Manual before operating the riding mower.

If a problem should arise, or if you have any questions about your riding mower, consult an authorized Honda riding mower dealer.

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1. SAFETY INFORMATION

Read all safety instructions before you ride!
(H3011 only, Manual Transmission)

> **DANGER**
> COLLECTS MAY BE THROWN FROM THE MOWER.
> BEFORE MOWING, CLEAR LAWS AND DECKS.
> KEEP PEOPLE AND PETS AWAY.
> BE SURE GLOVES DOWN.

> **DANGER**
> KNOT / TIGHT BUNDLES

> **WARNING**
> OPERATOR ONLY NO PASSENGER.
> OPERATING ON PUBLIC STREETS OR HIGHWAYS IS ILLEGAL.
> ALWAYS OPERATE WITH PROPER PROTECTIVE DEVICES.
> OPERATING ON BUILDINGS IS ILLEGAL.
> DO NOT OPERATE IN WIND.
> DO NOT OPERATE WITH FUEL IN HAND.
> OPERATING ON known surfaces.
> AVOID TOWING.
> REDUCE SPEED WHEN TURNING OR OPERATING ON SLOPES.
> MAXIMUM SLOPE OPERATING AT 10 DEGREES.
> SLOPE OF 10 DEGREES.
> DRIVER BLADE MAY CAUSE INJURY.
> STOP ENGINE BEFORE REMOVING CATCHER BAGS OR CLEANING DISCHARGE CHUTE.

> **CAUTION**
> PREVENT BRAKE FAILURE.
> DISCONNECT BRAKES WHEN NOT IN USE.
> BRAKE SELECTORS WILL STOP THE Engine IF BRAKES ARE NOT RELEASED.

> **DANGER**
> ROTATING BLADE.
> KEEP HANDS AND PETS AWAY FROM THE MOWER.
> KEEP HANDS AWAY FROM THE MOWER.
> KEEP AWAY FROM THE MOWER.

> **WARNING**
> GASOLINE IS FLAMMABLE.
> STOP ENGINE, AVOID HEAT, SPARKS, AND OPEN FLAME WHEN REFUELING.
Read all safety instructions before you ride!
(H3011H only, Hydrostatic Transmission)

**WARNING**
- Operator only; no passengers.
- Operation on public streets or highways is illegal.
- Mower can throw objects.
- Before mowing, clear lawn of all sticks, rocks, and other debris.
- Keep people and pets away.
- When mowing:
  - Reduce speed when turning or operating on slopes.
  - Maximum safe operating angle is 10 degrees.
  - (1% grade)

**DANGER**
- Objects may be thrown from the mower.
- Before mowing, clear lawn of all debris.
- Keep people and pets away.
- Be sure guard is down before starting mower.

**CAUTION**
- Prevent brake failure.
- Do not allow oil or fuel to contaminate water bodies.
- Never wear petroleum-based rubber shoes in the presence of gasoline.
- A delayed engine cut-off may occur with the engine off, producing spark ignition.

**OPERATION**
1. Warm up the mower.
2. Rise the front casters.
3. Start the engine.
4. Get in the mower.
5. Engage the transmission.
6. Engage the clutch.
7. Stop the engine.
8. Place the transmission in neutral.
9. Stop the mower.

**WARNING**
GASOLINE IS FLAMMABLE.
- Stop engine, avoid heat, sparks, and open flame when refueling.

**DANGER**
- Moving blade.
- Keep hands and feet away from mower and discharge guard.
- While blade is turning.

**CAUTION**
- When replacing, inspecting or adjusting the blade, be sure to:
- Disconnect the spark plug lead.
- Keep lawn equipment only when the engine is turned off.

**WARNING**
- Wear heavy shoes to protect your hands.
- Keep hands free of grease; the fan blades could catch grease and cause severe hand injury.

**CAUTION**
- To prevent damage to the mower:
- Grasp the shaft head of pulley firmly and return the throttle arm slowly.
SAFETY INFORMATION

For your safety and the safety of others, pay special attention to these precautions:

Operator Responsibility

- Keep the riding mower in good operating condition. Operating a riding mower in poor, or questionable condition could result in serious injury.
- Be sure all safety devices are in working order and warning labels are in place, these items are installed for your safety.
- Know how to stop the engine and blade quickly in case of emergency. Understand the use of all controls.
- Allowing anyone, to operate this riding mower without proper instruction may result in injury.
- Allowing passengers to ride on the mower or any of its attachments may cause the mower to tip over.
- Wear sturdy, full coverage footwear. Operating this riding mower barefoot, or with open toe shoes or sandals increases your risk of injury.
- Dress sensibly. Loose clothing may get caught in moving parts, increasing your risk of injury.
- Be alert. Operating this riding mower when you are tired, ill or under the influence of alcohol or drugs may result in serious injury.
- Keep all persons and pets away from the mowing area.

Child Safety

Serious injury or death can occur when children fall off the mower and are run over by the machine, or when children run or fall in the path of a mower and are run over.
- Allowing children to ride as passengers on the riding mower can be dangerous.
- Keep children indoors and supervised at all times when any outdoor power equipment is being used nearby. Young children move quickly and are attracted to the mower and the mowing activity especially if they have been given rides before.
- Never assume children will remain where you last saw them. Be alert and turn the mower off if children enter the area. Use extra care when approaching corners, shrubs, and trees that might shield children from sight.
- Children should never be allowed to operate the riding mower, even under adult supervision.
Cutting Blade Hazard

The cutting blade is sharp, and it turns at high speed. Accidental contact can cause serious injury.
- Keep your hands and feet away from the mower deck while the engine is running.
- Stop the engine, disengage the Power Take Off (P.T.O.) clutch and remove the key before inspection or maintenance of the deck or blade.
- Disconnect the spark plug cap to prevent any possibility of accidental starting. Wear heavy gloves to protect your hands from the blade when cleaning out the mower deck, or when inspecting or replacing the blade.

Thrown Object Hazard

Objects hit by the cutting blade can be thrown from the mower with great force, and may cause serious injury.
- Before mowing, clear the mowing area of sticks, stones, dog bones, and other litter and loose objects. Mow only in daylight, or in well-lit areas at night, so you can see and avoid objects in the grass.
- Before operating the mower, be sure the side discharge guard is down, or that the optional grass catcher bags and discharge chute are in place.
- Disengage the Power Take Off (P.T.O.) lever to stop the blade before crossing a gravel driveway or any other area with loose stones.
- Always inspect the mower for damage after striking a foreign object. Repair or replace any damaged parts before continued use.
- Broken pieces thrown from a worn or damaged blade can cause serious injury. Always inspect the blade before using the mower.

Fire and Burn Hazard

Gasoline is extremely flammable, and gasoline vapor can explode. Use extreme care when handling gasoline. Keep gasoline out of reach of children.
- Refuel in a well ventilated area with the engine stopped.
- Allowed the engine to cool before refueling. Fuel vapor or spilled fuel may ignite.
- The accumulation of dry grass and leaves around the engine or exhaust may ignite.
- It is illegal in some areas to operate an engine without a USDA qualified spark arrester. Periodic maintenance is required to keep it functioning as designed.
The engine and exhaust system become very hot during operation and remain hot for a while after stopping. Contact with hot engine components can cause burn injuries and can ignite some materials.

- Avoid touching a hot engine or exhaust system.
- Allow the engine to cool before performing maintenance or storing the riding mower indoors.

**Carbon Monoxide Poisoning Hazard**

Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

- If you run the engine in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from building up, provide adequate ventilation.

**Towing Hazard**

Towing vehicles such as garden carts, trailers, or other vehicles is not recommended. Towing vehicles could cause brake failure, transmission failure or loss of control.

**Operation on Slopes**

This riding mower is intended for use on relatively flat terrain. Operating the riding mower on slopes exceeding 10 degrees (17% grade) could cause the mower to tip over.

- When mowing on slopes, empty the grass bags when they are half full. The weight of full grass bags may cause the riding mower to tip over.

*Maximum safe operating angle*
2. COMPONENT IDENTIFICATION

- SHIFT LEVER
- BRAKE LEVER
- WARNING BUZZER
- JING AIR INTAKE
- ENGINE SWITCH
- SEAT
- THROTTLE LEVER
- PARKING BRAKE LEVER
- MUFFLER
- DISCHARGE CHUTE
- BRAKE PEDAL
- COOLING AIR INTAKE

H3011H (HYDROSTATIC TRANSMISSION)
Record the frame and engine serial numbers for your reference. Refer to the serial numbers when ordering parts, and when making technical or warranty inquiries (see page 76).

Frame serial number: 

Engine serial number: 

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3. CONTROLS

Engine switch

**WARNING** Always remove the key from the engine switch whenever the riding mower is unattended to prevent children or unauthorized persons from starting the engine.

This riding mower is equipped with an automotive type ignition switch, which controls all the electrical circuits. The switch is located on the right-hand side in front of the gear shift lever.

Key positions:

- "START" to start the engine
- "ON" to run the engine after starting
- "OFF" to stop the engine.

**IMPORTANT NOTICE** Do not leave the engine switch "ON" (key on "ON" position) when the engine is not running as the battery will discharge.

(H3011 only, Manual Transmission)

NOTE: The starter motor will not work unless the shift lever is in NEUTRAL and the P.T.O. lever is in the OFF (Disengaged) position.

(H3011H only, Hydrostatic Transmission)

The starter motor can only be activated when the shift lever is set to neutral and the P.T.O. lever to OFF with the seat switch ON or the parking brake applied.

Throttle lever

The throttle lever controls engine speed from SLOW (idle) to FAST (max speed). START (CHOKE) is for starting a cold engine.
Cutter deck height adjusting lever

This lever is used to raise and lower the cutter deck. To adjust the cutting height, squeeze the handle lock and then press in and hold the set button. Raise or lower the lever until the desired cutting height appears on the indicator. At that point, release the set button and the handle lock. Be sure the handle lock returns to its normal position when released.

Cutting height: 1.0, 1.5, 2.0, 2.5, 3.0, 3.5 in (Approx.)

**IMPORTANT NOTICE**

- To avoid damage to the cutter deck, always raise it fully when driving the riding mower to and from the mowing area; this provides maximum ground clearance.
- To avoid damaging or disabling the handle locking mechanism, never attempt to screw the adjusting lever's set button in or out.

Shift lever (H3011 only, Manual Transmission)

This lever is used to select one of the five forward speeds, neutral, or reverse. The drive clutch automatically disengages while the lever is being moved. The clutch will then engage automatically when put into gear unless the brake pedal is depressed.

**WARNING** Do not operate the shift lever on a slope.

**CAUTION** Bring the riding mower to a complete stop before shifting from a forward speed to reverse, or from reverse to a forward speed. Shifting between forward and reverse speeds while the riding mower is moving can cause transmission damage.

When shifting from one forward speed range to another while moving, do not force the shift lever and do not shift up or down more than one slot at a time.

**NOTE:** The riding mower will pull away from a stop in any speed range. No shifting is necessary.

4th and 5th speeds are not recommended for mowing but may be used for driving the riding mower from one area to another.
Shift lever (H3011H only, Hydrostatic Transmission)

Use the shift lever to change the forward/reverse speed of the riding mower and/or to shift the transmission into NEUTRAL (STOP).

To drive the riding mower forward, release the parking brake and slowly move the shift lever from NEUTRAL to forward direction (away from you).

To drive in reverse, slowly move the shift lever back (toward you).

**NOTE:** The shift lever is interconnected with the brake pedal, the shift lever returns to NEUTRAL when the brake pedal is fully depressed bringing the riding mower to a complete stop.

**WARNING** Do not operate the shift lever on a slope.

**CAUTION** Bring the riding mower to a complete stop before shifting from a forward speed to reverse, or from reverse to a forward speed. Shifting between forward and reverse speeds while the riding mower is moving can cause transmission damage.

**NOTE:** The riding mower will pull away from a stop in any speed range. No shifting is necessary.

Be sure that the shift lever is in the mowing range whenever mowing. Mowing in the transport range is not recommended: as this will affect cut quality. Transport range should only be used to drive to and from the mowing area.

**NOTE:** An interlock switch prevents the engine from starting unless the shift lever is in the N (neutral) position.

**Power Take-Off (P.T.O.) lever**

This lever engages and disengages the power take-off clutch to drive the blade.

Lever positions:

- **ON (Engaged):** Blade turns
- **OFF (Disengaged):** Blade stops

**NOTE:** An interlock switch prevents the engine from starting unless the P.T.O. lever is in the OFF position.
Brake pedal (H3011 only, Manual Transmission)

Depressing the pedal will first disengage the riding mower drive clutch. As you continue to depress the pedal, the brake will be applied to stop the riding mower.

When the clutch pedal is released, the clutch will automatically engage smoothly.

**CAUTION** Releasing the brake pedal too slowly can cause the clutch to slip, and may lead to premature clutch wear.

Brake pedal (H3011H only, Hydrostatic Transmission)

The brake pedal and the shift lever are interconnected. When the brake pedal is fully depressed, the riding mower will stop and the shift lever will return to NEUTRAL. If the brake pedal is depressed half-way and then released, the riding mower will stop and then continue at a slower speed.

**IMPORTANT NOTICE** Driving the riding mower with the brake pedal partly depressed can damage the brake linings.
Parking brake lever and warning buzzer  
(H3011 only, Manual Transmission)

This lever is used to set the brake when the riding mower is parked.

To set the parking brake, pull up on the parking brake lever until the set button locks in place.
To release the parking brake, pull the lever up slightly and press the set button, lower the lever while holding in the button.
The warning buzzer will sound continuously when the following conditions are present:
With the parking brake set, the engine switch "ON" and the shift lever in gear.

IMPORTANT NOTICE When washing the riding mower, do not spray water directly warning buzzer holes.
Parking brake lever and warning buzzer  
(H3011H only, Hydrostatic Transmission)

This lever is used to set the brake when the riding mower is parked. Pull the lever fully up until the ratchet locks.

To set the parking brake, pull up on the parking brake lever until the set button locks in place.

To release the parking brake, pull the lever up slightly and press the set button, lower the lever while holding in the button.

The warning buzzer will sound continuously when the following conditions are present:
Operator in the seat with the parking brake set, the engine switch “ON” and the shift lever moved from the “N” position.

To prevent operating riding mower with the parking brake set, a delayed engine cutoff is interlinked with the warning buzzer. The engine will stop within a few seconds if the parking brake is not released.

IMPORTANT NOTICE When washing the riding mower, do not spray water directly into the warning buzzer holes.
Transmission release lever

This lever is used when it becomes necessary to push or move the riding mower manually.

**WARNING** Operating the transmission release lever while on a slope or hill, could result in a loss of control causing serious injury or equipment damage.

**IMPORTANT NOTICE** Operating the transmission release lever while the engine is running could cause transmission damage.

To operate the transmission release lever:

1. Stop the engine and apply the parking brake.
2. Place the shift lever in the NEUTRAL position.
3. Move the transmission release lever down to the lower groove (red dot) and lock it in place.
4. Release the parking brake carefully.

**IMPORTANT NOTICE** Towing or pushing the riding mower with another vehicle will damage the transmission.

If the riding mower becomes inoperable due to transmission failure, trailer-ing the mower to the place of repair is recommended.
4. PRE-OPERATION CHECKS

Following the procedures below and check all of the following items before each use:

1. Park the riding mower on a level surface.
2. Place the shift lever in the neutral position and set the park brake.
3. Disconnect the spark plug cap and remove the engine switch key to prevent accidental engine start-up.

**WARNING** If the engine is started accidentally while you are performing the pre-operation checks, moving parts may cause serious injury.

**COOLING AIR INTAKE**

Make sure the cooling air intake screens are clean.

**IMPORTANT NOTICE** If the cooling air intake screens are blocked the engine may overheat.
ENGINE OIL

**IMPORTANT NOTICE** Running the engine with low oil level will cause serious engine damage.

1. Place the riding mower on a level surface.
2. Lift the rear body, wipe dust and dirt from around the oil filler cap, remove the cap and wipe the dipstick clean.
3. Insert the dipstick into the oil filler neck, but do not screw it in.
4. If the level is low, add the recommended oil to the upper mark on the dipstick.

Use high-detergent, premium quality 4-stroke engine oil, certified to meet or exceed U.S. automobile manufacturer's requirements for API Service Classification SG, SF/CC, CD.

**IMPORTANT NOTICE** Using nondetergent oil or 2-stroke engine oil could shorten the engine's service life.

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

Raise the rear body and check the fuel level.

Refill the tank to the upper level mark if necessary. Do not fill the fuel tank above the UPPER level mark.

Fuel tank capacity: 2.5 l (0.66 US gal)

**WARNING**

Gasoline is extremely flammable, and gasoline vapor can explode. Use extreme care when handling gasoline. Keep gasoline out of reach of children.

- Refuel in a well ventilated area with the engine stopped. Keep flames and sparks away, and do not smoke in the area.
- Allow the engine to cool before refueling. Fuel vapors or spilled fuel may ignite.
- Refuel carefully to avoid spilling fuel. Avoid overfilling the fuel tank (there should be no fuel in the filler neck). After refueling, tighten the filler fuel cap securely. If any fuel was spilled, make sure the area is dry before starting the engine.
- After use, turn the fuel valve OFF, and park the riding mower on a level surface. Be sure the storage area is well ventilated, do not allow flames or sparks in the storage area.

Fuel Recommendation

Pump octane rating: 86 or higher

If "spark knock" (metallic rapping noise) or persistent "pinging" occurs at a steady engine speed under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized Honda riding mower dealer.
IMPORTANT NOTICE  Running the engine with persistent spark knock or pinging can cause engine damage.

Running the engine with persistent spark knock or pinging is considered misuse, and the Distributor's Limited Warranty does not cover parts damaged by misuse.

Occasionally you may hear light spark knock while operating under heavy loads. This is no cause for concern. It simply means your engine is operating efficiently.

We recommend unleaded fuel because it produces fewer engine and spark plug deposits and extends the exhaust system life.

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

If you decide to use a gasoline containing alcohol (gasohol), be sure its rating is at least as high as that recommended by Honda (see Fuel Recommendation on page 21). There are two types of 'gasohol': one containing ethanol, and the other containing methanol.

**CAUTION** Using gasohol that contains more than 10% ethanol, or gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol, can cause serious fuel system damage and poor engine performance.

Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.

NOTE: Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty.

Before buying fuel from an unfamiliar station, first determine if the fuel contains alcohol; if it does, find out the type and percentage of alcohol used.

NOTE: If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.
AIR CLEANER

Check that the air cleaner elements are clean and in good condition. A dirty air cleaner will restrict air flow to the carburetor, reducing engine performance. A damaged air cleaner will allow dirt to enter the engine, causing rapid engine wear.

1. Raise the rear body and remove the two wing nuts to remove the air cleaner cover and air cleaner elements.
2. Inspect the air cleaner elements. Clean or replace the cleaner if necessary. If the air cleaner elements need cleaning, follow the procedure described on page 49.
3. Reinstall the air cleaner elements and air cleaner cover. Tighten the wing nuts securely.

**IMPORTANT NOTICE** Operating the engine without an air cleaner will cause rapid engine wear.
BATTERY

Raise the rear body and check the battery electrolyte level.

The electrolyte level must be kept between the UPPER and LOWER level marks. If the electrolyte level is near the LOWER mark, remove the battery filler caps and carefully add distilled water to the upper level line (see page 52).

**WARNING** Batteries produce explosive gases. Flames or sparks can cause an explosion, causing serious injury or blindness. Keep flames and sparks away and provide adequate ventilation when charging.

- **CHEMICAL HAZARD:** Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through clothing, may cause severe burns. Wear a faceshield and protective clothing.
  - ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.
- **POISON:** Electrolyte is poison.
  - ANTIDOTE
    - External: Flush thoroughly with water.
    - Internal: Drink large quantities of water or milk. Follow with milk of magnesia or vegetable oil, and call a physician immediately.
- **KEEP OUT OF REACH OF CHILDREN.**
TRANSMISSION OIL (H3011 only, MANUAL TRANSMISSION)

1. Place the riding mower on a level surface.
2. Remove the oil filler cap and check that the oil level is at the bottom edge of the oil filler cap hole.
3. If the level is low, fill to the lower edge of the oil filler hole with the recommended oil (see page 20).
4. Tighten the oil filler cap.

TRANSMISSION OIL CAPACITY: 2.8 l (2.96 US qt)
MANUAL TRANSMISSION
RECOMMENDED OIL: 10 W-30 MOTOR OIL
TRANSMISSION FLUID (H3011H only, HYDROSTATIC TRANSMISSION)

Check the transmission fluid with the riding mower parked on level ground and the transmission at ambient temperature.

NOTE: HST fluid changes its volume with changes of temperature. The upper and lower marks are calibrated for HST fluid temperature between 32 °F (0 °C) and 68 °F (20 °C). Within this temperature range, the oil level should be between the upper and lower marks on the reservoir.

If the fluid temperature is below 32 °F (0 °C), the transmission fluid level may be below the lower mark on the reservoir. To measure the level, start the engine and warm the transmission fluid.

If the fluid temperature is above 68 °F (20 °C), the level may be above the upper mark on the reservoir. This is normal and does not indicate a problem.

Make sure the fluid level is between the upper and lower marks on the reservoir. If the level has dropped close to or below the lower mark and the fluid temperature is between 32 °F (0 °C) and 68 °F (20 °C), add transmission fluid until it reaches the upper mark. Do not overfill.

Required transmission fluid:
HONDA HYDROSTATIC TRANSMISSION FLUID ONLY

IMPORTANT NOTICE The use of any other type of hydrostatic fluid or transmission fluid will drastically reduce the transmission's performance. To avoid damaging the transmission, use only HONDA HYDROSTATIC TRANSMISSION FLUID.

BRAKE

Inspect brake lining condition every time the riding mower is used. Firmly set the parking brake, and then check the position of the brake wear indicator. If the indicator is near the wear limit, take the riding mower to an authorized Honda riding mower dealer for repair.

IMPORTANT NOTICE Under no circumstances should the riding mower be operated if the brake lining is at or past the service limit.
PRIMARY BELT AND BLADE BELT

**Wear or damage**
1. Move the P.T.O. lever to the OFF (Disengaged) position.
2. Lower the cutter deck as far as it will go with the cutter deck height adjusting lever.
3. Inspect both belts for wear and damage. If the belts are worn or damaged, replace them according to the instructions on pages 59 and 60.

**Blade belt tension**
1. Move the P.T.O. lever to the ON (Engaged) position.
2. Lower the cutter deck as far as it will go with the cutter deck height adjusting lever.
3. Visually inspect the outside edge position of the tensioner arm. If the outside edge of the arm reaches the adjustment mark, follow the adjustment procedure on page 58 to adjust the belt tension.
TIRES

**IMPORTANT NOTICE** Overinflation can cause premature tire failure. Inflate the tires to manufacture's recommended tire pressure.

Check the tire pressure with an air pressure gauge.
Pressure:  
- Front: 1.0 kg/cm² (14 psi)
- Rear: 0.7 kg/cm² (10 psi)

CUTTER DECK

Prior to using the riding mower, be sure to check that dirt, mud and grass are not built up in the cutter deck. For cleaning, refer to pages 66–67.
**BLADE**

Before each use, check the cutter blade for damage or excessive wear.

**WARNING** To avoid injury, remove the engine switch key and disconnect the spark plug cap to prevent accidental starting; wear heavy gloves to protect your hands from the cutter blade.

1. Move the P.T.O. lever to the OFF (disengaged) position, and raise the cutter deck height adjusting lever to the highest position.
2. Inspect the blade for cracks, bending, or wear. The right blade can be seen through the discharge opening on the right side of the cutter deck. The left blade can be seen under the left side of the cutter deck.

**NOTE:** When using the optional grass catcher kit, remove the middle chute and inspect the blade by looking through the lower chute.

---

View when fitted with the grass bag (optional part)
4. If the blade shows signs of damage or excessive wear, a more thorough inspection is necessary (see page 56 for cutter deck removal). A dull blade can be sharpened, but a blade that is worn out, bent, cracked or otherwise damaged must be replaced. If a blade needs sharpening or replacement, take the cutter deck to your authorized Honda riding mower dealer. Or, if you have the proper tools, you can remove and install the blade yourself.

![Diagram showing blade conditions: Normal, Excessively Worn, Bent, Cracked]

**WARNING** Broken piece thrown from a worn or damaged blade can cause serious injury. Always inspect the blade before using the mower.

**IMPORTANT NOTICE**
- Use a genuine Honda replacement blade, or equivalent.
- To reduce the possibility of weakening the blade, or causing imbalance or poor cutting performance, sharpening should be performed by an authorized Honda riding mower dealer.
SAFETY SWITCH

Before performing these inspections, remove the spark plug cap.

1. P.T.O. switch inspection
   - With the shift lever in the N (Neutral) position, set the P.T.O. lever in the ON (Engaged position).
   - Check that the starter motor is not started when the engine switch is turned to the START position.
   - Return the P.T.O. lever to the OFF (Disengaged) position.

2. Neutral switch inspection
   - With the P.T.O. lever in the OFF (Disengaged) position, move the shift lever from the "N" (Neutral) position into a gear or speed range.
   - Check that the starter motor is not started when the engine switch is turned to the START position.
   - Return the shift lever to the N (Neutral) position and reinstall the spark plug cap.

SEAT ADJUSTMENT

1. Raise the rear body.
2. Loosen the seat adjusting knob.
3. Move the seat to a position that allows you to reach all controls easily and comfortably.
4. Tighten the seat adjusting knob securely.
Starting the engine

**WARNING** Exhaust gas contains poisonous carbon monoxide gas that may cause loss of consciousness and lead to death. Never run the engine in an enclosed area. Be sure to provide adequate ventilation.

1. Raise the rear body, turn the fuel valve ON and close the rear body.

2. Sit on the seat and check that the parking brake lever is set, the transmission is in neutral and the P.T.O. lever is in the OFF (Disengaged) position.

3. Move the throttle lever to the START (CHOKE) position.

**NOTE:** When the engine is warm or the air temperature is high, move the throttle to SLOW.
4. Turn the engine switch to START. (5 second maximum)

**IMPORTANT NOTICE** Using the starter motor for more than 5 seconds can damage the motor.
If the engine fails to start, release the engine switch key, and wait at least 10 seconds before operating the starter motor again.

5. After the engine starts, let the engine switch return to ON.
6. After the engine warms up, move the throttle lever to the SLOW position.
• Seat safety switch operation check.
  The seat safety switch automatically stops the engine if the operator’s weight is off the seat when the following inter-locks are actuated.
  - 1. While parked on a level surface, move the P.T.O. lever to ON (Engaged).
     Rise off the seat—the engine should stop immediately.
  - 2. Return the P.T.O. lever to OFF (Disengaged) and restart the engine.
     Release the parking brake and place the shift lever into the 1st gear or slow mowing range. While driving slowly, rise off the seat—the engine should stop immediately.
  - 3. Move the shift lever back to NEUTRAL and set the parking brake.
     Start the engine and release the parking brake. Raise up off the seat—the engine should stop.

• Parking brake system inspection
  - 1. Set the parking brake.
  - 2. Start the engine.
  - 3. Set the shift lever into 1st gear or slow mowing range. Check that the warning buzzer sound, and the engine is stopped several seconds after.
  - 4. Return the shift lever back to the N (Neutral) position, and turn off the engine switch.

Have your riding mower inspected and repaired by your authorized Honda riding mower dealer if there is any abnormality.
Mowing

**WARNING** Before operating this riding mower you should read and understand the SAFETY INSTRUCTION on pages 4—7.

**IMPORTANT NOTICE**

- Be aware of rocks, roots, holes and hidden hazards in the terrain. Unseen hazards may cause loss of control or damage the riding mower.
- In tall grass, first mow with the cutter deck fully raised (3 1/2'); this will help expose any hidden obstacles. When you are sure the area is completely cleared, re-mow at the desired height.
- If the riding mower should accidentally get caught by an unseen object, (holes, roots, or rocks) do not try to ride over the obstruction or turn the steering wheel to free the mower. This will damage the steering mechanism or cutter deck.
- Operating the riding mower near the edge of a ditch or an embankment could cause the mower to tip or rollover.
- Avoid sharp turns or sudden stops on sloping surfaces. Avoid backing down or rapid acceleration on sloping surfaces. Both of which could cause loss of control.
- Stop the engine before removing the grass bags or cleaning the discharge chute.
- Empty the grass bags after use to avoid creating a fire hazard when the riding mower is stored.

**Mowing tips**

- For good mowing conditions, the grass should not be wet, but the ground should be damp to control dust.
- If dust is a problem, water the lawn the day before mowing, allowing the grass to dry while the ground remains moist.
- Always allow the grass to dry before cutting. Cutting wet grass will cause the cutter deck or the discharge to clog, resulting in poor cut quality.
- Always engage the P.T.O. before selecting the desired mowing speed to avoid leaving uncut grass. Engaging the P.T.O. in tall uncut grass may cause the engine to stall.
- Mow at full throttle with the transmission in the desired mowing speed for the best cut quality and performance. Mowing in a medium or low throttle setting will affect the performance and cut quality.
- After selecting the desired mowing speed, you should remain in that range when mowing for the best results. Avoid making rapid mowing speed changes from slow to fast when mowing, this will affect cut quality.
- Avoid shifting to the transport range when mowing. Mowing in the transport range is not recommended, as this will affect cut quality. Transport range should only be used to drive to and from the mowing area.
- If the lawn is thick, lush, or uneven, lower the mowing speed, raise the cutter deck and cut a narrower swath.
- If the lawn has grown too tall, lower the mowing speed, raise the cutter deck height and mow twice (first at a high cutter deck setting, then at the desired height).
- For a finish trim cut, lower the mowing speed and mow the lawn counterclockwise around trees, post, flower beds, sprinklers and other obstacles.
- An adjustment of the cutter deck may be required if the grass does not cut properly. Have the cutter deck height inspected and adjusted by an authorized Honda riding mower dealer. First, verify the deck is clean and the blades are in good condition.
- If mowing on a sloping surface, always drive up and down the face of the grade. Never turn around or drive across the face of the slope; this may cause the mower to tip over.
- To prevent tipping or loss of control, always reduce the ground speed and exercise extreme caution when operating on slopes and uneven surfaces.
Starting the riding mower

WARNING Be sure the mowing area is clear of people, pets and other obstacles before mowing.

1. Set the cutter deck height adjusting lever to the desired cutting height.

2. Move the throttle lever to the FAST position.

NOTE: For best cut quality, and performance always use full throttle. Use the shift lever to select the desired mowing speed range.
3. Move the P.T.O. lever to the ON (Engaged) position.

4. (H3011 only, Manual Transmission) Move the shift lever to select the desired gear position. The clutch will engage automatically in about one second.

**IMPORTANT NOTICE** If clutch engagement occurs immediately or takes longer than one second, have the riding mower serviced by your authorized HONDA riding mower dealer.

**WARNING**
- Be sure the area behind the mower is clear of people, pets and other obstacles before backing up.
- Operate the mower at low speed until you become familiar with all of its operating characteristics.

(H3011H only, Hydrostatic Transmission) Release the parking brake and slowly move the shift lever to the desired mowing speed.

**IMPORTANT NOTICE** When operating the riding mower on rough or uneven terrain, select a mowing speed that will give you safe ground speed while the engine is running at full throttle.
Cutting patterns

These cutting patterns are only recommended for a flat, level lawn surface.

- In a small area

  First make 2 or 3 turns in a clockwise direction; then turn around and continue cutting in the reverse direction.

- In a large area

  The first round of cuts is the key to making a neat finish. First, make 2 or 3 turns in a clockwise direction. As you reach the center of the area, turn to the right and continue cutting in the reverse direction until you have finished the upper half of the area. Cut the grass in the remaining half in a counterclockwise direction.
- **Mowing on unsquare areas**

  If your mowing area is not square or four-sided, divide the area into several blocks so you can mow in a neat mowing pattern.

- **Overlapping in straight-a-ways**

  Be sure that each mowing lane overlaps sufficiently. The recommended overlap width is between 102—152 mm (4—6 in), or approximately the width of one of the mower’s front tires.

- **Overlapping in curves and turns**

  When cutting in curves and turns, shift to a slower speed and be sure to overlap the previous cut by 50%, or approximately half the width of the mower.
Uphill starting procedure (H3011 only, Manual Transmission)

If possible, avoid stopping the riding mower while driving uphill. However, if it is necessary to stop, follow this special procedure:

1. Set parking brake.
2. Apply pressure to the brake pedal.
3. Move the throttle lever to mid range.
4. Shift the transmission to 1st gear position.
5. Release the brake pedal.
6. Wait until the clutch engages.
   (The warning buzzer will sound until the parking brake is released. If the parking brake is not released, the engine will automatically stop within a few seconds.)
7. Then release the parking brake lever.

If the parking brake lever is released before the brake pedal, the riding mower may roll downhill before the clutch engages. This may cause the riding mower to tip over.

[H3011H only, Hydrostatic Transmission]

Stopping on a hill

If possible avoid stopping the riding mower while driving uphill. If it is necessary to stop on a hill, follow the procedures below.

1. Depress the foot the brake to the floor (shift lever returns to “N”).
2. Move the P.T.O. lever to the OFF (disengaged) position.
3. Set the parking brake.

Uphill starting procedure

It is important to follow the uphill starting carefully to avoid tipping the riding mower over.

1. Release the parking brake.
2. Slowly move the shift lever to the desired speed range.

**WARNING** Moving the shift lever too quickly while starting uphill may cause the mower to tip over. Always move the shift lever slowly and gradually.
Stopping the engine

- In an emergency:
  (1) Turn the engine switch OFF and depress the foot brake.
  (2) Set the parking brake.

- In normal use:
  (1) Move the P.T.O. lever to OFF (Disengaged).
  (2) Move the shift lever to the Neutral position.
  (3) Set the parking brake.
  (4) Turn the engine switch OFF.
  (5) Turn the fuel valve OFF.
  (6) Remove the engine switch key.
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 fuel mixture may also foul the spark plugs and cause hard starting.

High altitude performance can be improved by installing a smaller diameter main fuel jet in the carburetor and readjusting the pilot screw. If you always operate the engine at altitudes higher than 6,000 feet above sea level, have an authorized Honda riding mower dealer perform this carburetor modification.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000 feet increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

When the carburetor is modified for good high altitude operation, the air/fuel mixture will be too lean at low altitude. Performance will decrease, the engine will overheat.

To avoid an excessively lean air/fuel mixture, reinstall the standard main jet and readjust the pilot screw for operation at altitudes lower than 6,000 feet above sea level.
Transporting

The engine becomes very hot during operation and remains hot for a while after stopping. Allow the engine to cool before transporting.

**WARNING** Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting.

Transport the riding mower on a flat level trailer or in a pickup truck. Tie down hooks should be on or near the floor.

Turn the fuel valve OFF and set the parking brake. Tie the riding mower down securely, using the tie down points shown below.

**IMPORTANT NOTICE** To avoid damaging the tie-rods, be careful not to put the rope around or near them when securing the front end.

- Spilled fuel may ignite. To avoid fuel and oil spillage, keep the riding mower level when transporting.
- Do not pull the riding mower behind another vehicle, and do not use the riding mower to push another vehicle.
7. MAINTENANCE

Periodic maintenance and adjustment are necessary to keep the riding mower in good operating condition. Service and inspect according to the MAINTENANCE SCHEDULE.

**WARNING**

- To avoid carbon monoxide poisoning, shut off the engine before performing any maintenance. If you run the engine in an area that is confined, or even partially enclosed, the air you breathe will contain a dangerous amount of exhaust gas. If the engine must be run for any reason, be sure the area is well-ventilated.
- To avoid serious burns, allow the engine to cool before performing maintenance.
- Shut the engine off and set the parking brake before performing any maintenance.
- To prevent accidental start-up, remove the engine switch key and disconnect the spark plug cap.
- The riding mower should be serviced by an authorized HONDA riding mower dealer unless the owner has proper tools and service data and feels he is mechanically qualified.

**IMPORTANT NOTICE** Use only genuine Honda parts or their equivalent for maintenance or repair. Replacement parts which are not of equivalent quality may damage the riding mower.
# Maintenance Schedule

<table>
<thead>
<tr>
<th>Item</th>
<th>Regular Service Period</th>
<th>Each Use</th>
<th>First 3 Months or 20 Hrs</th>
<th>Every 6 Months or 50 Hrs</th>
<th>Every Year or 100 Hrs</th>
<th>Every 3 Years or 500 Hrs</th>
<th>Every 5 Years or 500 Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil</td>
<td>Check level</td>
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<td>○</td>
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<tr>
<td>Air cleaner</td>
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<tr>
<td>Seat switch operation</td>
<td>Check</td>
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<tr>
<td>Cooling air intake</td>
<td>Clean</td>
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<tr>
<td>Parking brake buzzer operation</td>
<td>Check</td>
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<tr>
<td>Battery electrolyte</td>
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<td>Tire pressure</td>
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<td>Blade belt</td>
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<td>Grass bag (optional part)</td>
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<td>Foot brake</td>
<td>Check</td>
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<td>Brake and clutch (fasteners tightness)</td>
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<td>Parking brake</td>
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<td>Spark plug</td>
<td>Check, Clean</td>
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<td>Spark arrester</td>
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<td>Drive clutch (H3011 only)</td>
<td>Check, Adjust</td>
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<td>Fuel tank and filter</td>
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<tr>
<td>Throttle cable</td>
<td>Check, Adjust</td>
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<td>Front axle</td>
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<tr>
<td>Fuel line</td>
<td>Check (Replace if necessary)</td>
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<tr>
<td>Valve clearance</td>
<td>Check, Adjust</td>
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<tr>
<td>Engine fins and shroud</td>
<td>Clean</td>
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</tbody>
</table>

**Note:**
1. Service the air cleaner more frequently when used in dusty areas.
2. These items should be serviced by an authorized Honda dealer, unless the owner has proper tools and is mechanically proficient. See the Honda Shop Manual.
3. For professional commercial use, long hours of operation to determine proper maintenance intervals.
4. Must be serviced by an authorized Honda riding mower dealer.
Engine Oil Change

Drain the oil while the engine is warm to assure rapid and complete draining.

NOTE: Used motor oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely, unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

1. Remove the cutter deck (see pages 56–57)
2. Raise the rear body.
3. Remove the oil filler cap and the drain plug, and drain the oil into a suitable container.
4. Retighten the drain plug securely. Clean off the oil around the drain plug.
5. Refill to the upper level mark on the dipstick with the recommended oil (see page 20). Tighten the oil filler cap securely.

OIL CAPACITY: 1.1 l (1.2 US qt)

OIL FILLER CAP

OIL DRAIN PLUG

NOTE: Please dispose of used motor oil in a manner that doesn’t harm the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground or down a drain.
Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor. If you operate the riding mower in very dusty areas, clean the air cleaner more often than specified in the MAINTENANCE SCHEDULE.

Operating the engine without the air cleaner will cause rapid engine wear.

1. Raise the rear body.
2. Remove the wing nuts and the air cleaner cover. Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.
3. Foam element: Clean in warm, soapy water, rinse, and dry thoroughly. Or, clean in nonflammable solvent and dry. Dip the element in clean engine oil, then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.

**WARNING** Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion. Use only soapy water or nonflammable solvent.

4. Paper element: Tap the element several times on a hard surface to remove loose dirt, or blow compressed air through the filter from the inside. Do not try to brush off dirt. Brushing will force dirt into the fibers.
Spark Plug Service

**Recommended spark plug:** BPR5ES (NGK)
W16EPR-U (ND)

**WARNING** Touching a hot engine or exhaust system can cause serious burns. Let the engine cool before performing maintenance.

**IMPORTANT NOTICE** Spark plugs of the wrong heat range can cause engine damage.

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

1. Raise the rear body.
2. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.
3. Remove the spark plug, using a spark plug wrench.

4. Visually inspect the spark plug. Discard the spark plug if the electrodes are worn, or if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
5. Measure the spark plug gap with a feeler gauge. The gap should be 0.7—0.8 mm (0.028—0.031 in). Correct the gap as necessary by carefully bending the side electrode.
6. Install the spark plug carefully, by hand, to avoid cross-threading.

7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

**IMPORTANT NOTICE** Loose spark plug can get hot enough to damage the engine. Overtightening may damage the threads.

**NOTE:** If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 - 1/4 turn after the spark plug seats to compress the washer.
Battery Service

Refilling battery fluid
If the riding mower is operated with insufficient battery electrolyte, sulfation and battery plate damage will occur. If rapid loss of electrolyte is experienced, or if your battery seems to be weak, causing slow starting or other electrical problems, see your authorized Honda riding mower dealer.
Raise the rear body and check the electrolyte level in each battery cell. Fill the battery with distilled water to the upper level line. Never overfill the battery.

WARNING Batteries produce explosive gases: If ignited, an explosion can cause serious injury or blindness. Provide adequate ventilation when charging.
- CHEMICAL HAZARD: Battery electrolyte contains sulfuric acid. Contact with eyes or skin, even through plathins, may cause severe burns. Wear a faceshield and protective clothing.
- Keep flames and sparks away, and do not smoke in the area.
  ANTIDOTE: If electrolyte gets into your eyes, flush thoroughly with warm water for at least 15 minutes and call a physician immediately.
- POISON: Electrolyte is poison.
  ANTIDOTE
  — External: Flush thoroughly with water.
  — Internal: Drink large quantities of water or milk. Follow with milk of magnesia or vegetable oil, and call a physician immediately.
- KEEP OUT OF REACH OF CHILDREN.

NOTE: Use distilled water in the battery.
- Tap water will shorten the service life of the battery.
- Overfilling may cause electrolyte overflow and corrosion. Wash off any spilled electrolyte immediately.
Battery cleaning
If the battery terminals are contaminated or corroded, remove the battery and clean the terminals.

1. Remove battery set plate.
2. Disconnect the battery cable at the battery negative (−) terminal, then at the battery positive (+) terminal.

3. Remove the battery and clean the battery terminals and battery cable terminals with a wire brush or sand paper.
   Clean the battery with a solution of baking soda and warm water, taking care not to get the solution or water in the battery cells. Dry the battery thoroughly.
4. Connect the battery positive (+) cable to the battery positive (+) terminal, then the battery negative (−) cable to the battery negative (−) terminal. Tighten the bolts and nuts securely.
5. Coat the battery terminals with grease.
6. Reinstall the battery set plate.

**CAUTION** When disconnecting the battery cable, be sure to disconnect at the battery negative (−) terminal first. To connect, connect at the positive (+) terminal first, then at the negative (−) terminal. Never dis/connect the battery cable in the reverse order, or it causes a short circuit when a tool contacts the terminals.
Drive clutch inspection (H3011 only, Manual Transmission)

1. Place the shift lever in the "2" position.
2. Using light pressure, push the clutch arm toward the front of the riding mower until you feel resistance. At this point the index mark on the clutch arm should be between the two notches on the clutch cable joint. If the index mark moves past the service limit notch, the clutch disk may be worn out; consult your authorized Honda riding mower dealer.

NOTE: Do not force the clutch arm during this inspection, or a false failure indication will result.
Wheel removal

**WARNING**

- Do not attempt to remove a wheel unless the riding mower is on firm and level ground.
- Do not attempt to remove or replace a tire unless you have the equipment and knowledge to do so properly.

Block the wheels securely.

**Front wheel**

1. Remove the cotter pin and loosen the 12 mm nut one turn.
2. Jack up the front of the riding mower and remove the 12 mm nut, washer, and front wheel.
3. Install the front wheel in the reverse order of removal.
4. Tighten the 12 mm nut to the lower specified torque.
   - FRONT WHEEL NUT TORQUE: 5.5—6.5 kg-m (40—47 ft-lb)
5. Align the nut to the next possible cotter pin hole while tightening the nut just beyond the lower specified torque. Install a new cotter pin and bend the ends as shown.

**Rear wheel**

1. Remove the cotter pin and loosen the 14 mm nut one turn.
2. Jack up the rear of the riding mower and remove the 14 mm nut, washer, and rear wheel.
3. Apply a thin coat of grease to the axle (splined portion) before installing the rear wheel.
4. Install the rear wheel in the reverse order of removal.
5. Tighten the 14 mm nut to the lower specified torque.
   - REAR WHEEL NUT TORQUE: 5.5—6.5 kg-m (40—47 ft-lb)
6. Align the nut to the next possible cotter pin hole while tightening the nut just beyond the lower specified torque. Install a new cotter pin and bend the ends as shown.

**NOTE:** Do not align the cotter pin holes in a position where the wheel nut torque is less than the specified torque.

**[JACK POINTS]**
Cutter deck removal

1. Position the front wheel straight ahead and lower the cutter deck.
2. Move the P.T.O. lever to OFF (disengaged), and remove the belt stopper.

3. Remove the lock pins, collar, and washers, then remove the clutch rod from the cutter deck.
4. Remove the four lock pins (two pins for right and left sides respectively) and washer from the right and left sides of the cutter deck.
5. Remove the two lock pins and washers from the right and left front deck arms, then remove the front deck arms from the frame body (one lock pin for each front deck arm).

**NOTE:** Mark each front deck arm left and right to ensure proper position at reassembly. Incorrect reassembly of the front deck arms may cause uneven cutter deck height on the left and right sides.

6. Remove the deck belt from the drive pulley on the underside of the transmission.

7. Disengage the cutter deck from the rear deck arms by moving it from side to side.

8. Set the deck height adjusting lever in the fully up position, and turn the steering wheel all the way to the left. Remove the cutter deck from the right side.

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**CAUTION**

- Be careful not to catch the cutter deck on the brake and shift rod.
- When the cutter deck is removed, the return spring will cause the deck height adjusting lever to snap upward when the release button is pressed. Hold the lever firmly, and carefully return it to the UPPER position after removing the deck.

Installation is the reverse order of removal.
Blade belt adjustment/replacement

**WARNING** Never attempt to change a belt while the engine is running. Remove the engine key from the ignition and disconnect the spark plug cap to prevent accidental start up.

**CAUTION** Wear heavy gloves to protect your hands when replacing belts or when working with the cutter blade.

**Adjustment**
1. Set the steering wheel in the straight-ahead position.
2. Move the P.T.O. lever to the ON (Engaged) position.
3. Lower the cutter deck as far as it will go with the cutter deck height adjusting lever.
4. Loosen the 8 x 16 mm flange bolt and pull the adjusting arm towards you, so that the side edge in front of the tension arm comes to the setting mark position on the cutter deck, then retighten the bolt. Make sure to align the angles of the setting mark and the side edge. If the side edge does not reach the setting mark after adjustment, replace the belt and repeat the adjustment procedure.
Replacement

1. Remove the cutter deck from the riding mower according to the instructions on pages 56–57.

2. Remove the two 6 mm bolts and the three stopper bolts shown below.

3. Grasp the tensioner arm/pulley firmly, and pull the tensioner arm outward to release tension on the belt. Then remove and replace the blade belt.

   **WARNING** Don't put your hands between the pulleys, and don't let the tensioner pulley snap back; return it slowly.

4. Reassembly is the reverse of the above procedure.
Primary belt replacement

**CAUTION** Wear heavy gloves to protect your hands when replacing the belt.

1. Remove the cutter deck (see pages 56-57).
2. Remove the primary belt from the pulley on the belt tensioner arm while pressing out on the arm by hand. Remove the primary belt from the pulley on the engine.
3. Install a new primary belt. Install the remaining parts in the reverse order of removal.
Blade bolt tightness/Blade replacement

**WARNING** To avoid severe personal injury, remove the ignition key and disconnect the spark plug cap to prevent accidental starting; wear heavy gloves to protect your hands from the cutter blade.

### Blade bolt tightness

1. Remove the cutter deck from the riding mower (see page 56).
2. Turn the cutter deck upside down.
3. Clean dirt and grass from the blade and the inside of the cutter deck.
4. Hold the blade firmly, and use a torque wrench to check that the blade bolt is properly tightened.

**12 x 25 mm bolt tightening torque:** 8.5 kg-m (61.5 ft-lb)

**Blade bolt tightening torque:** 5.0 kg-m (36.2 ft-lb)

### Blade removal

1. Hold the blade firmly, and remove the blade bolt, 12 x 25 mm bolts, blade washer, spring washers and blade.
2. Remove the blade and blade holder.

![Blade removal diagram](image-url)
Blade installation

**IMPORTANT NOTICE** Use a genuine Honda replacement blade or equivalent.

1. Clean any dirt and grass from around the blade shaft and inside the deck.
2. Install a new blade onto the shaft and secure it with the blade bolt, 12 x 25 mm bolts, blade washer, spring washers and blade.

Be sure the blade is properly aligned with the blade holder before tightening the blade bolt. Do not allow the blade to overlap the edge of the holder.
- Install the blade with the lift section of the blade toward the cutter deck as shown.
- Install the washer with the side marked "INSIDE" facing the blade.
- The blade bolt and washer are specially designed for this application and must not be replaced with any other bolt or washer.

3. Hold the blade firmly and use a torque wrench to check that the blade bolt is properly tightened.
   Blade bolt tightening torque: 5.0 kg-m (36.2 ft-lb)
   12 x 25 mm bolt tightening torque: 8.5 kg-m (61.5 ft-lb)
Spark arrester maintenance (optional part)

**WARNING** The muffler becomes very hot during operation and remains hot for a while after the engine stops. Be careful not to touch the muffler while it is hot. Allow it to cool before proceeding.

The spark arrester must be serviced every 100 hours to maintain its efficiency.

1. Remove the four 6 mm bolts and 8 mm bolt that hold the shift lever guide stay, and then remove the stay and collar.
2. Remove the two 6 mm bolts from the exhaust pipe tip. Remove the exhaust pipe tip, spark arrester and gasket (be careful not to damage the spark arrester screen).
3. Use a wire brush to remove carbon deposits from the spark arrester screen.

**NOTE:** Inspect the spark arrester screen for holes or tears. Replace it if it is damaged.

4. Reinstall all parts in the reverse order of removal.
Fuse replacement

The 5 A main fuse is located near the battery on the positive terminal. When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized Honda riding mower dealer for repair.

To replace fuse pull the old fuse out of the clips with your finger. Push a new fuse into the clips.

IMPORTANT NOTICE Never use fuse with a different rating from that specified. Serious damage to the electrical system or a fire may result.

Turn the engine switch OFF and remove the key before checking or replacing fuses to prevent accidental short-circuiting.
8. STORAGE

Preparation for storage
The engine becomes very hot during operation and remains hot for a while after stopping. Allow the engine to cool before storing.

**WARNING** Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before storing.

The following steps should be taken to protect the riding mower whenever it will be stored for longer than 30 days.

1. Drain all gasoline from the fuel tank into an approved gasoline container.

   ![Diagram of fuel system](image)

   Turn the fuel valve ON, loosen the carburetor drain screw, and drain the fuel into an approved gasoline container. After draining tighten the drain screw securely.

   **WARNING** Gasoline is extremely flammable, and gasoline vapor can explode, causing serious injury or death. Use extreme care when handling gasoline.

   Keep flames and sparks away, and do not smoke in the area.

   **NOTE:** If gasoline is not drained before storage, fuel system damage may result.
2. Change the engine oil (see page 48).

**IMPORTANT NOTICE** To avoid engine damage, do not store riding mower without engine oil in crankcase.

**NOTE:** If the riding mower will be stored for longer than 3 months, raise the rear body and remove the spark plug and pour three tablespoons (approximately 1 oz.) of clean motor oil into the cylinder. Place the P.T.O. lever in the OFF position and the shift lever in the N position. With the parking brake applied, lower the cutter deck to the bottom. Reaching from the rear of the mower, grasp the primary belt at point A, and slowly pull it toward you to turn the engine. Reinstall the spark plug.

![Diagram of PRIMARY BELT and MOTOR OIL]

**CAUTION** Be sure to wear heavy gloves when pulling the primary belt. If the riding mower has been running, the engine will be very hot. Allow it to cool before proceeding.

3. Remove the battery and store in a cool, dry place. Recharge it once a month.
4. If equipped with the optional grass catcher, be sure to empty and clean the bags before storage.
5. Remove the cutter deck (see pages 56–57).
6. Turn the cutter deck upside down. Clean the underside of the deck with water, and dry thoroughly.
7. For longer service and greater efficiency, keep the underside of the mower housing clean and free of accumulated grass clippings by washing it down with a hose after use and/or cleaning it with a wire brush and scraper. Remove any rust and apply a rust-resistant paint. Cleaning and rust prevention are especially important before seasonal storage.

8. Reinstall the cutter deck by reversing the removal procedure.

9. Store the riding mower on a level surface in a dry, dust-free area with the parking brake lever set.

10. Cover the riding mower to keep out dust.

11. Check tire air pressure regularly during storage and inflate if necessary.

Removal from storage

1. Check the battery electrolyte level (see page 25). Fully recharge the battery, and install it in the riding mower.

2. Remove the spark plug and check that it is clean and properly gapped (see page 50). Turn the engine a few revolutions with the starter motor before reinstalling the spark plug.

3. Thread the spark plug in as far as possible by hand, then tighten it 1/8 to 1/4 turn further with the plug wrench.

4. Check the engine oil level (see page 20).

5. Fill the fuel tank, and start the engine by following the starting instructions (see page 33).

NOTE: If the cylinder was coated with oil, the engine will initially smoke at start up; this is normal.
9. TROUBLESHOOTING

Engine fails to start;
1. No fuel. Add fuel.
2. Shift lever in gear. Position shift lever in NEUTRAL.
(H3011H only, Hydrostatic Transmission)
4. Parking brake not set. Set the parking brake.
5. Seat switch is not depressed. Sit in seat.
6. Spark plug faulty or improperly gapped. Regap plug or replace (see page 50).
7. Spark plug wire loose. Check spark plug wire.
8. Fuel not reaching carburetor. Check the position of the fuel valve (see page 33). If that's not the problem, see your authorized HONDA riding mower dealer.
9. Discharged battery or loose terminal. Charge battery or retighten terminal (see page 53).
10. Blown fuse. Replace fuse (see page 64).

Riding mower does not move, or clutch does not engage properly when the transmission is shifted into gear. (H3011H only)
1. Faulty clutch assy. See your authorized HONDA riding mower dealer.
2. Transmission does not shift gear. See your authorized HONDA riding mower dealer.
3. Abnormal clutch engagement. See your authorized HONDA riding mower dealer.

Riding mower does not move or cannot drive fast when setting the shift lever travel range. (H3011H only)
2. Riding mower does not move or cannot drive fast. See your authorized HONDA riding mower dealer.

Engine loses power;
1. Dirty air cleaner elements. Clean or replace elements (see page 49).
2. Spark plug faulty or improperly gapped. Regap plug or replace (see page 50).
3. Engine overloaded. Shift to lower speed.
4. Clogged spark arrester. Clean spark arrester (see page 63).
Engine overheats;
1. Cooling air intake plugged. Clean cooling air intake (see page 19).
2. Engine overloaded. Shift to lower speed.
3. Low engine oil level. Fill with recommended oil (see page 20).
4. Spark plug improperly gapped. Regap plug or replace (see page 50).
5. Cooling fan damage. See your authorized HONDA riding mower dealer.

Oil consumption
1. Incorrect oil viscosity. Use specified viscosity oil. (see page 21).
2. Oil leaks. Check for oil leaks from drain bolt. (see page 20).
3. Worn piston ring, etc. See your authorized HONDA riding mower dealer.

Erratic operation;
1. Dirty fuel. See your authorized HONDA riding mower dealer.
2. Dirty air cleaner elements. Clean air cleaner elements. (see page 49).
3. Spark plug faulty or improperly gapped. Regap plug or replace. (see page 50).

Excessive vibration;
1. Loose blade or engine mounting hardware. Retighten blade bolts or engine mounting hardware.
2. Blade damaged or out of balance. Replace blade or see your authorized HONDA riding mower dealer.
4. Each pulley damaged or pulleys not aligned. See your authorized HONDA riding mower dealer.

Battery will not charge;
1. Dead cell in battery. Replace battery.
2. Loose electrical connections or broken wire. Check connections and wires.
Parking brake warning buzzer does not operate;
2. Faulty buzzer. → See your authorized Honda riding mower dealer.

Steering is too heavy;
1. Insufficient tire air pressure → Correct each tire air pressure. (see page 29).

Mower steers one side;
1. Incorrect steering system → See your authorized Honda riding mower dealer.
2. Each tire air pressure → Correct each tire air pressure. (see page 29).
3. Loose fasteners of steering system → See your authorized Honda riding mower dealer.

Uneven mowing;
1. Riding mower speed too fast. → Shift to lower speed.
2. Grass accumulation → Clean inside deck (see page 67).
3. Dull blade. → Replace blade or see your authorized Honda riding mower dealer.
4. Tires improperly inflated. → Check tire inflation (see page 29).
5. Mower not level. → Check cutter deck mounting. See your authorized Honda riding mower dealer.
6. Wrong cutter deck height. → Change to proper height.
7. Chute clogged (if equipped with optional grass bag). → Empty grass bag and chute.
8. Lawn wet. → Allow to dry before cutting.
Clogged cutter deck discharge chute.
1. Wrong blade. → Use a genuine Honda blade or equivalent.
2. Deck too low. → Raise deck and adjust deck height properly.
3. Engine overloaded. → Operate at full throttle. Use lower speed range. Set cutter deck higher than desired height for first pass, then cut to desired height on second pass.
4. Wet lawn. → Mow when lawn is dry.
5. Lawn too tall. → Set cutter deck higher than desired height for first pass, then cut to desired height on second pass.
7. Grass bags full → Empty grass bags.
(Optional part).
8. Blade install upside down. → Check blade installation (see page 62).

Blade does not rotate or stop.
1. Blade belt worn or broken. → Replace with new belt (see page 59).
2. P.T.O. lever malfunction. → See your authorized Honda riding mower dealer.

Deep cutting
2. Turning speed fast. → Lower turning speed.
4. Rough and uneven surface. → Adjust with height adjuster. (see page 13)

Mowing load is too heavy and lowers the mower speed;
1. Low engine rpm. → Open throttle fully.
3. Mower catches wood block, → Remove any foreign objects. stone, etc.
## 10. SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>H3011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description Code</td>
<td>MZAJ</td>
</tr>
</tbody>
</table>

### ENGINE
- **Model**: GXV340K1
- **Type**: 4-stroke, overhead valve, 1 cylinder
- **Displacement**: 337 cm³ (20.6 cu in)
- **Bore and stroke**: 82 x 64 mm (3.2 x 2.5 in)
- **Ignition timing**: 20° BTDC
- **Ignition system**: Transistorized magneto
- **Cooling system**: Forced air
- **Engine oil capacity**: 1.1 ℓ (1.2 US qt, 1.0 Imp. qt)
- **Spark plug**: BPR5ES (NGK), WIGEPR-U (ND)

### FRAME
- **Dimensions**: 1,550 x 1,070 x 1,000 mm (61.0 x 42.1 x 39.4 in)
- **Wheel tread**:
  - Front: 570 mm (22.4 in)
  - Rear: 660 mm (26.0 in)
- **Wheel base**: 1,100 mm (43.3 in)
- **Cutting width**: 760 mm (30.0 in)
- **Cutting height**: 25.5, 38, 51, 63, 76, 89 mm (1.0, 1.5, 2.0, 2.5, 3.0, 3.5 in)
- **Dry weight**: 162 kg (364 lb)
- **Tire size**:
  - Front: 11 x 4.00 - 5
  - Rear: 16 x 6.50 - 8
- **Air pressure**:
  - Front: 1.0 kg/cm² (14 psi)
  - Rear: 0.7 kg/cm² (10 psi)
- **Gear selections**: 5 Forward, 1 Reverse
- **Travel speed (3,300 rpm)**:
  - First: 2.4 km/h (1.5 mile/h)
  - Second: 3.7 km/h (2.3 mile/h)
  - Third: 5.7 km/h (3.5 mile/h)
  - Fourth: 7.0 km/h (4.3 mile/h)
  - Fifth: 7.9 km/h (4.9 mile/h)
  - Reverse: 2.8 km/h (1.7 mile/h)
- **Fuel tank capacity**: 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
- **Battery**: 12V22AH

NOTE: Specifications are subject to change without notice.
<table>
<thead>
<tr>
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- **Displacement**: 337 cm³ (20.6 cu in)
- **Bore and stroke**: 82 x 64 mm (3.2 x 2.5 in)
- **Ignition timing**: 20° BTDC
- **Ignition system**: Transistorized magneto
- **Cooling system**: Forced air
- **Engine oil capacity**: 1.1 l (1.2 US qt, 1.0 Imp qt)
- **Spark plug**: BPR5ES (NGK) W16EPR-U (ND)

### FRAME
- **Dimensions**
  - Length x Width x Height: 1,545 x 1,050 x 1,000 mm (60.8 x 41.3 x 39.4 in)
- **Wheel tread**
  - Front: 570 mm (22.4 in)
  - Rear: 660 mm (26.0 in)
- **Wheel base**: 1,100 mm (43.3 in)
- **Cutting width**: 760 mm (30.0 in)
- **Cutting height**: 25.5, 38, 51, 63, 76, 89 mm (1.0, 1.5, 2.0, 2.5, 3.0, 3.5 in)
- **Dry weight**: 178 kg (400 lb)
- **Tire size**
  - Front: 11 x 4.00 — 5
  - Rear: 16 x 6.50 — 8
- **Air pressure**
  - Front: 1.0 kg/cm² (14 psi)
  - Rear: 0.7 kg/cm² (10 psi)
- **Speed position**: Transport, Mowing and Reverse
- **Travel speed (3,300 rpm)**
  - Mowing range: 5.3 km/h (3.3 mile/h)
  - Transport range: 7.6 km/h (4.7 mile/h)
  - Reverse range: 2.7 km/h (1.7 mile/h)
- **Fuel tank capacity**: 2.5 l (0.66 US gal, 0.55 Imp gal)
- **Battery**: 12V22AH

**NOTE**: Specifications are subject to change without notice.
Owner Satisfaction

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited Warranty.

Normally, any problems concerning the product will be handled by your dealer's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest you take the following action:

• Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.

• If your problem still has not been resolved to your satisfaction, contact:

   American Honda Motor Co., Inc.
   P.O. Box 50
   Gardena, California 90247-0805
   Telephone: (213) 604-2400

We will need the following information in order to assist you:

   • Your name, address, and telephone number
   • Product model and serial number
   • Date of purchase
   • Dealer name and address
   • Nature of problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipment, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both your dealer and American Honda Motor Co., Inc. We want to assist you in every way possible to assure your complete satisfaction with your purchase.
**Current customer service contact information:**

**United States, Puerto Rico, and U.S. Virgin Islands:**
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 am - 7:00 pm EST

When you write or call, please provide the following information:

- Model and serial numbers
- Name of the dealer who sold the Honda power equipment to you
- Name and address of the dealer who services your equipment
- Date of purchase
- Your name, address, and telephone number
- A detailed description of the problem