



SNOWBLOWER

HS1810Z•HS2411Z



ECOLOGY CONSCIOUS TECHNOLOGY

OWNER'S MANUAL
MANUEL DE L'UTILISATEUR
BEDIENUNGSANLEITUNG
MANUALE DELL'UTENTE

Honda HS1810Z·HS2411Z

OWNER'S MANUAL
Original instructions

MANUEL DE L'UTILISATEUR
Notice originale

BEDIENUNGSANLEITUNG
Originalbetriebsanleitung

MANUALE DELL'UTENTE
Istruzioni originali



ECOLOGY CONSCIOUS TECHNOLOGY

The "e-SPEC" mark symbolizes environmentally responsible technologies applied to Honda power equipment, which contains our wish to "preserve nature for generations to come."

Thank you for purchasing a Honda snowblower.

This manual covers the operation and maintenance of Honda snowblower: HS1810Z-HS2411Z.

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

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

No part of this publication may be reproduced without written permission.

This manual should be considered a permanent part of the snowblower and should remain with it if it is resold.

Pay special attention to statements preceded by the following words:

▲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.

NOTE: Gives helpful information.

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

▲WARNING
Operating this equipment requires special effort to ensure the safety of the operator and the safety of others. Read and understand this Owner's Manual before operating this equipment; failure to do so could result in personal injury or equipment damage.

The illustrations herein are mainly based on: HS2411Z

- The illustration may vary according to the type.

Disposal

To protect the environment, do not dispose of this product, battery, engine oil, etc. carelessly by leaving them in the waste. Observe the local laws and regulations or consult your authorized Honda dealer for disposal.

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1. SAFETY INSTRUCTIONS

▲ WARNING

To ensure safe operation –



- Honda snowblower is designed to give safe and dependable service if operated according to instructions. Read and understand this Owner's Manual before operating the snowblower. Failure to do so could result in personal injury or equipment damage.



- Never put your hand into the snow discharge chute while the engine is running; serious personal injury could result.



- Never stand or work around or near the auger while the engine is running. Your feet may be caught on the auger when the auger is accidentally started, increasing the risk of serious personal injury.



- If the snow discharge chute becomes clogged, stop the engine and use a snow drop bar or a wooden stick to unclog it.
- Never put your hand into the snow discharge chute while the engine is running; serious personal injury could result.



- Keep all persons and pets away from the snowblower area.



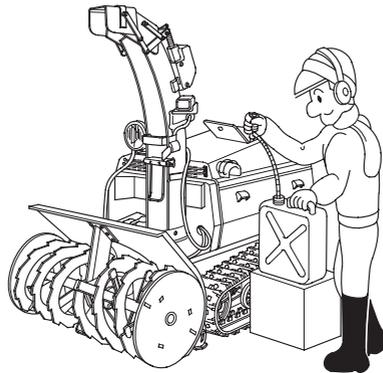
- **Exhaust gas contains poisonous carbon monoxide.**
Never run the snowblower in an enclosed area.
Be sure to provide adequate ventilation.



- **A hot exhaust system can cause serious burns.**
Avoid contact if the engine has been running.



- **Gasoline is extremely flammable and is explosive under certain conditions.**
- **Do not smoke or allow flames or sparks in the area where the snowblower is refueled or where gasoline is stored.**
- **Do not overfill the fuel tank, and make sure the fuel tank cap is closed securely after refueling.**
- **Refuel in a well-ventilated area with the engine stopped.**



Operator responsibilities

- **Know how to stop the snowblower quickly, and understand the operation of all controls.**
- **Never permit anyone to operate the snowblower without proper instruction. If people or pets suddenly appear in front of the snowblower while it is in operation, immediately release the drive clutch lever to stop the snowblower and avoid possible injury from rotating auger blades.**

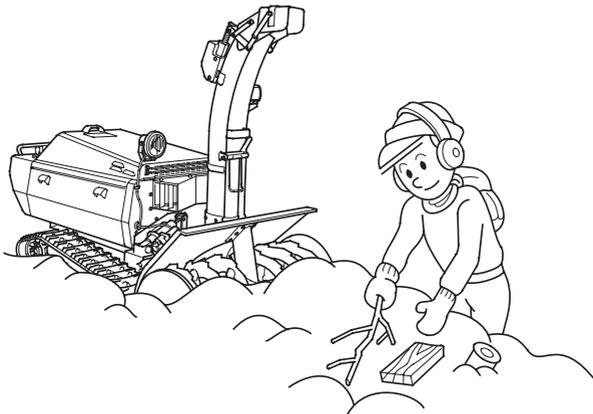
▲ WARNING

To ensure safe operation —

- Always make a pre-operation check (pages 37 through 46) before you start the engine. You may prevent an accident or equipment damage.
- Honda snowblowers are designed to give safe and dependable service if operated according to instructions. Read and understand this Owner's Manual before operating the snowblower. Failure to do so could result in personal injury or equipment damage.
- Before operating the snowblower, inspect the area in which you are going to clear snow. Remove debris and other obstacles the snowblower might strike or throw, as they may cause injury or damage to the snowblower.
- Inspect the snowblower before operating it. Repair any damage and correct any malfunction before operation.

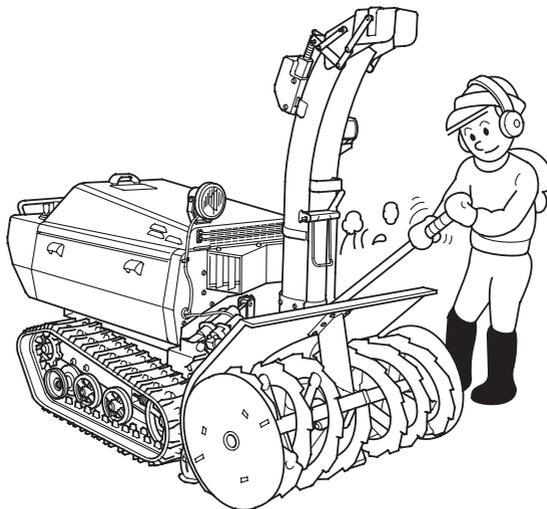
If you hit an obstacle while operating the snowblower, stop the engine immediately, and check for damage. Damaged equipment may increase the possibility of injury during operation.

- Do not use the snowblower when visibility is poor. Under conditions of poor visibility, there is a greater risk of striking an obstacle or causing injury.
- Never use the snowblower to clear snow from a gravel road or driveway, as rocks may be picked up and ejected. They may cause injury to bystanders.
- Do not store or leave tools, rags etc. in or behind the covers as they may cause personal injury or damage to the snowblower. Always keep the tools in the designated location.



▲ WARNING

- Adjust the snow discharge chute to avoid hitting the operator, bystanders, windows, and other objects with ejected snow. Stay clear of the snow discharge chute while the engine is running.
- Children and pets must be kept away from the area of operation to avoid injury from flying debris and contact with the snowblower.
- Do not use the snowblower to remove snow from roofs.
- To avoid overturning, be careful when changing the direction of the snowblower while operating it on a slope.
- The snowblower may overturn on steep slopes if left unattended, causing injury to the operator or bystanders.
- Do not use the snowblower on a slope of more than 10° (17%).
- The maximum safe grade angle shown is for reference purposes only. To avoid tipping the snowblower over, stay off slopes too steep for safe operation. The risk of snowblower upset is even higher when the surface is loose, wet or uneven.
- Before starting the engine, check that the snowblower is not damaged and in good condition. For your safety and safety of others, exercise extreme care when using the snowblower up or down hill.
- If the snow discharge chute becomes clogged, stop the engine and use a snow drop bar or a wooden stick to unclog it. Never put your hand into the snow discharge chute while the engine is running; serious personal injury could result.



▲ WARNING

- **Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure can cause loss of consciousness and may lead to death.**
- **The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the snowblower indoors.**
- **Stop the engine and let it cool before operating covers for inspection and other servicing.**
- **Carefully check the area before backing the snowblower up or while working in reverse.**
- **To protect your ears, use earplugs while operating the snowblower.**

NOTE:

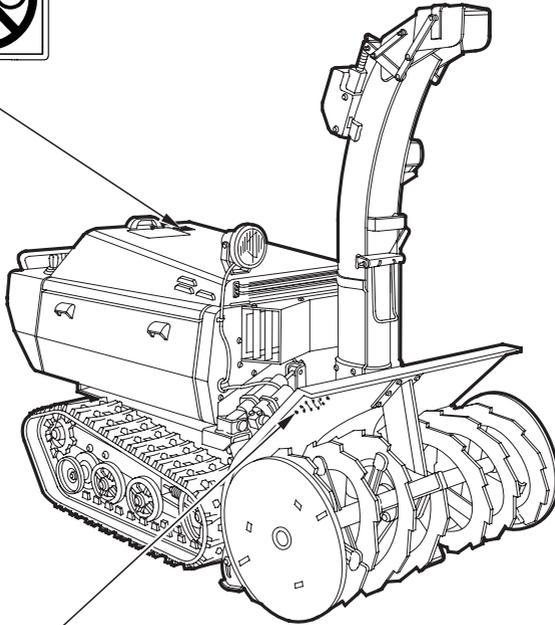
While operating the snowblower, hold the handle firmly, and walk, don't run. Wear suitable winter boots that resist slipping.

2. SAFETY LABEL LOCATIONS

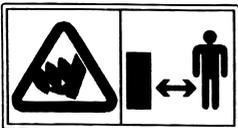
These labels warn you of potential hazards that can cause serious injury. Read the labels and safety notes and precautions described in this manual carefully.

If a label comes off or becomes hard to read, contact your Honda dealer for a replacement.

FUEL CAUTION



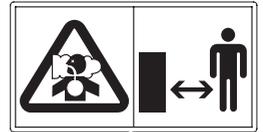
HOUSING DANGER



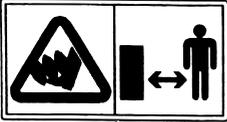
DISCHARGE DANGER



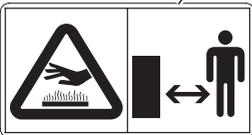
EXHAUST WARNING



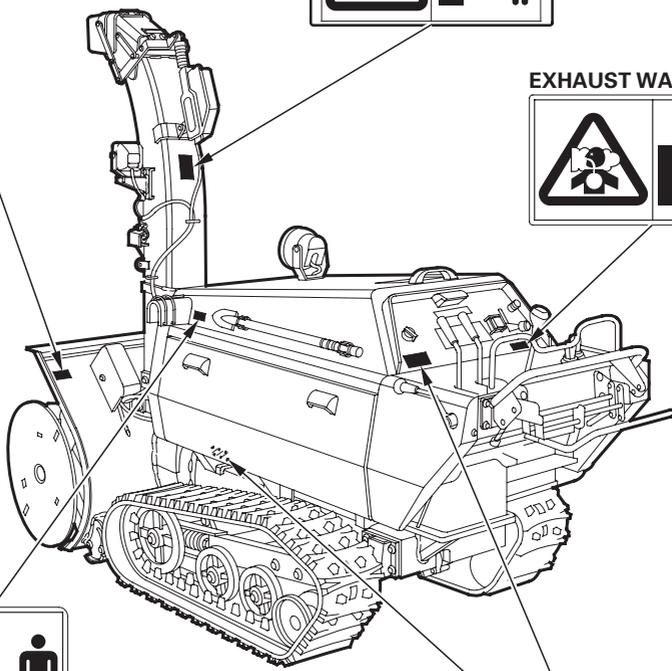
HOUSING DANGER



HOT CAUTION



READ OWNER'S MANUAL

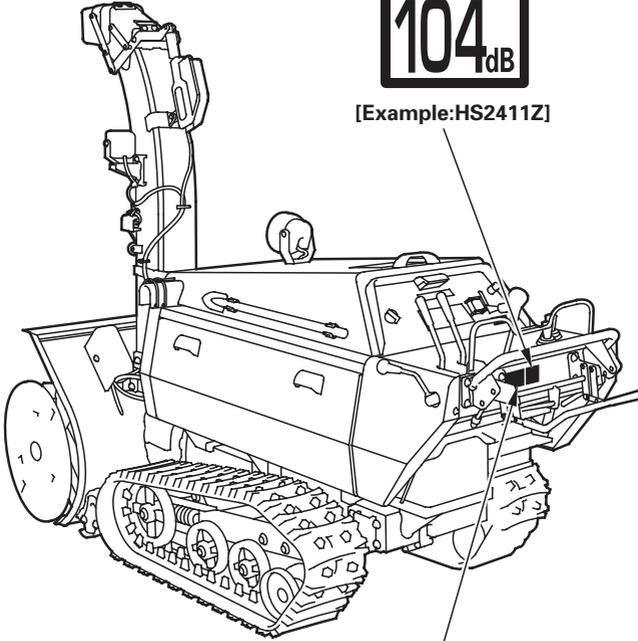


CE mark and noise label locations

NOISE LABEL



[Example:HS2411Z]



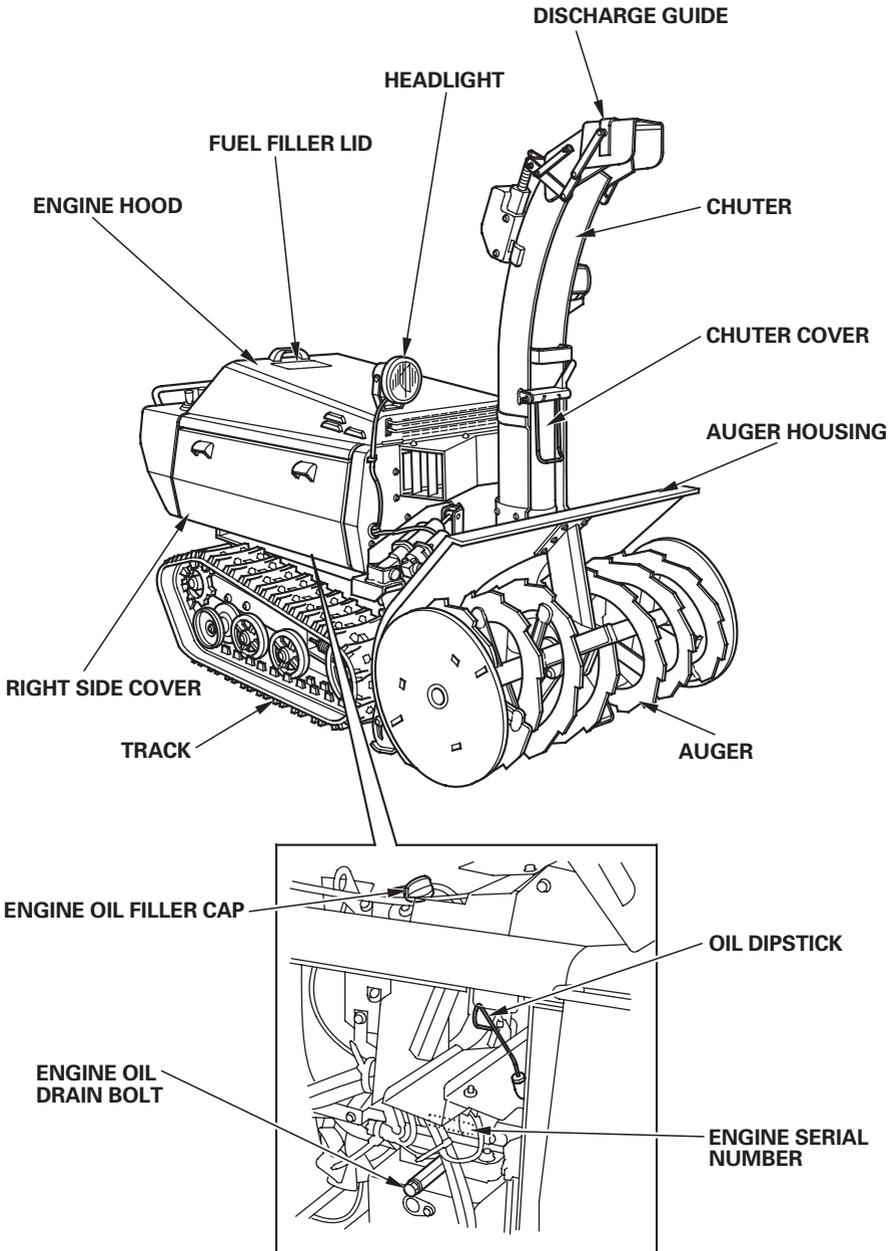
CE MARK

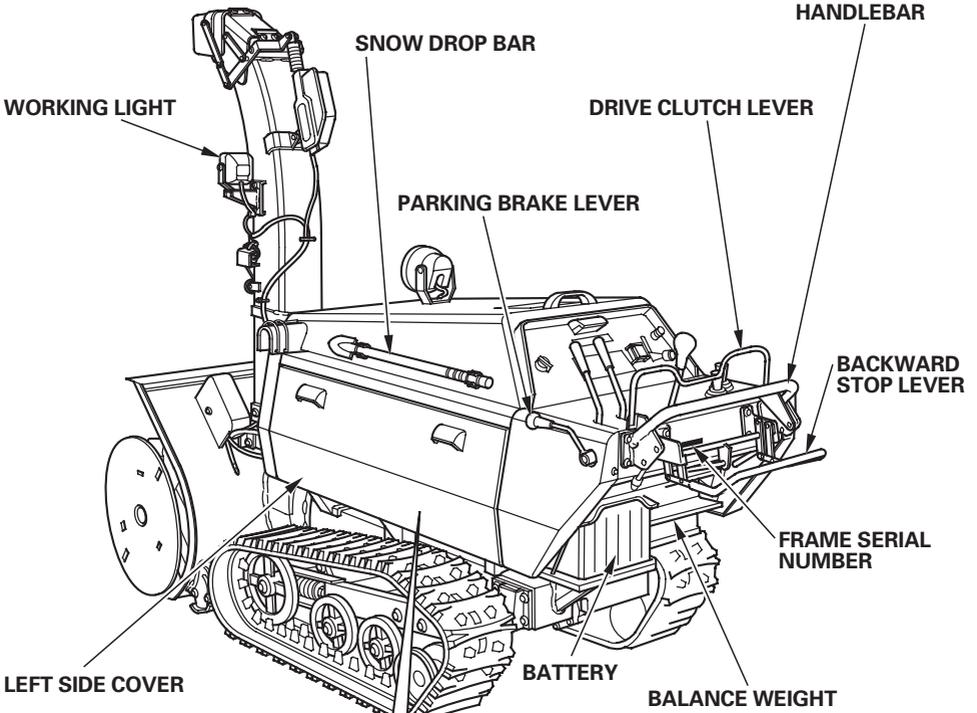
Name and address of manufacturer		Name and address of authorized representative	
Honda Motor Co. , Ltd. 2-1-1 Minamiaoyama, Minato-ku, Tokyo, Japan		Honda Motor Europe Ltd. Aalst Office Wijngaardveld 1 (Noord V). 9300 Aalst - BELGIUM	
Description code			
AЯ04		kW	kg
Engine net power		Machine mass (standard specification)	
		Year of manufacture	
		Frame serial number	

[Example:HS2411Z]

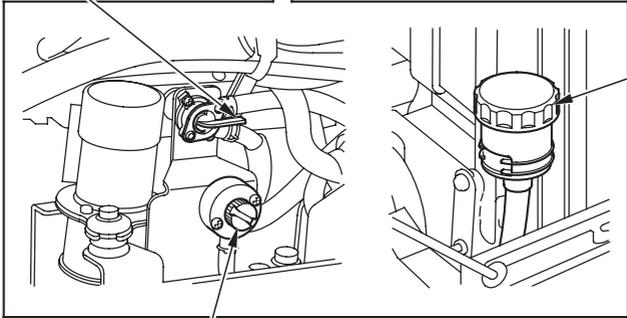
3. COMPONENT IDENTIFICATION

HS2411Z:



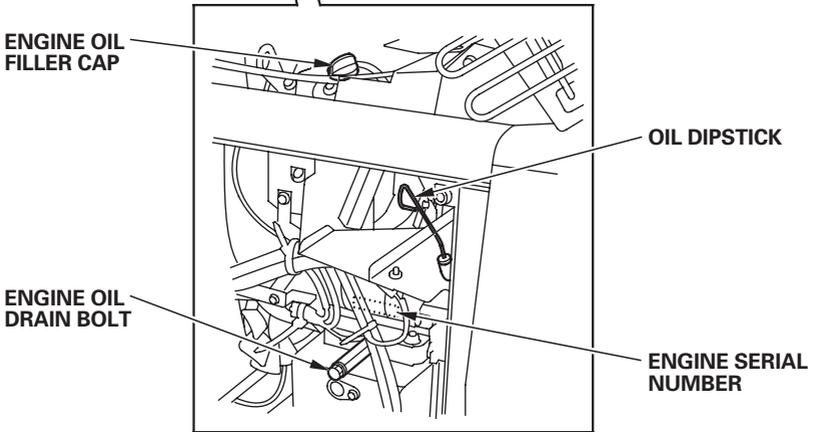
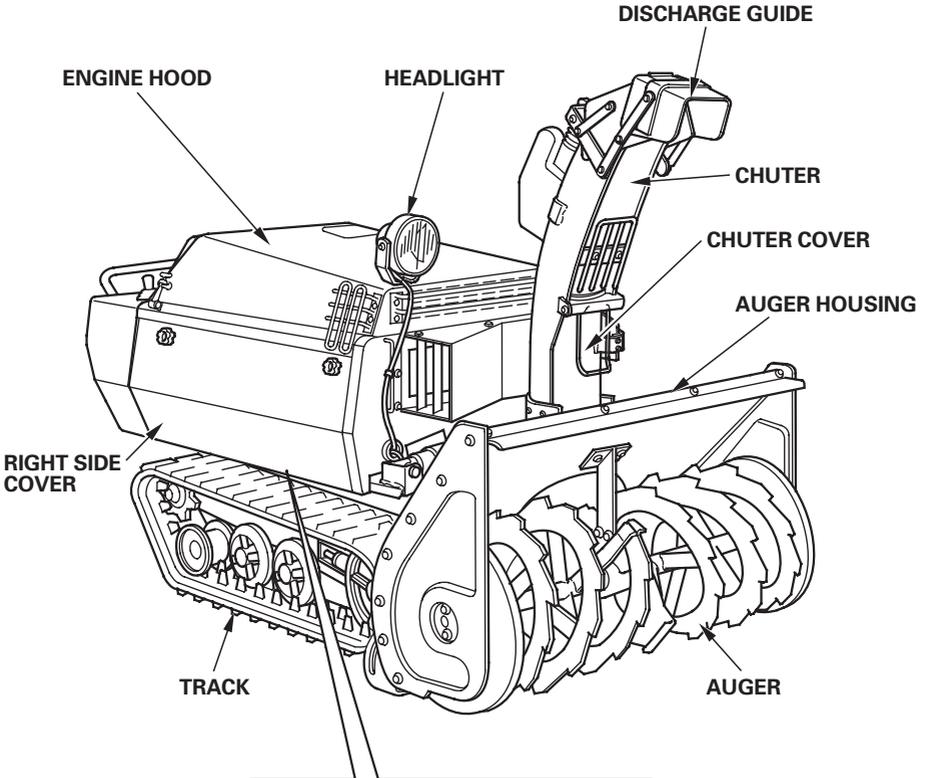


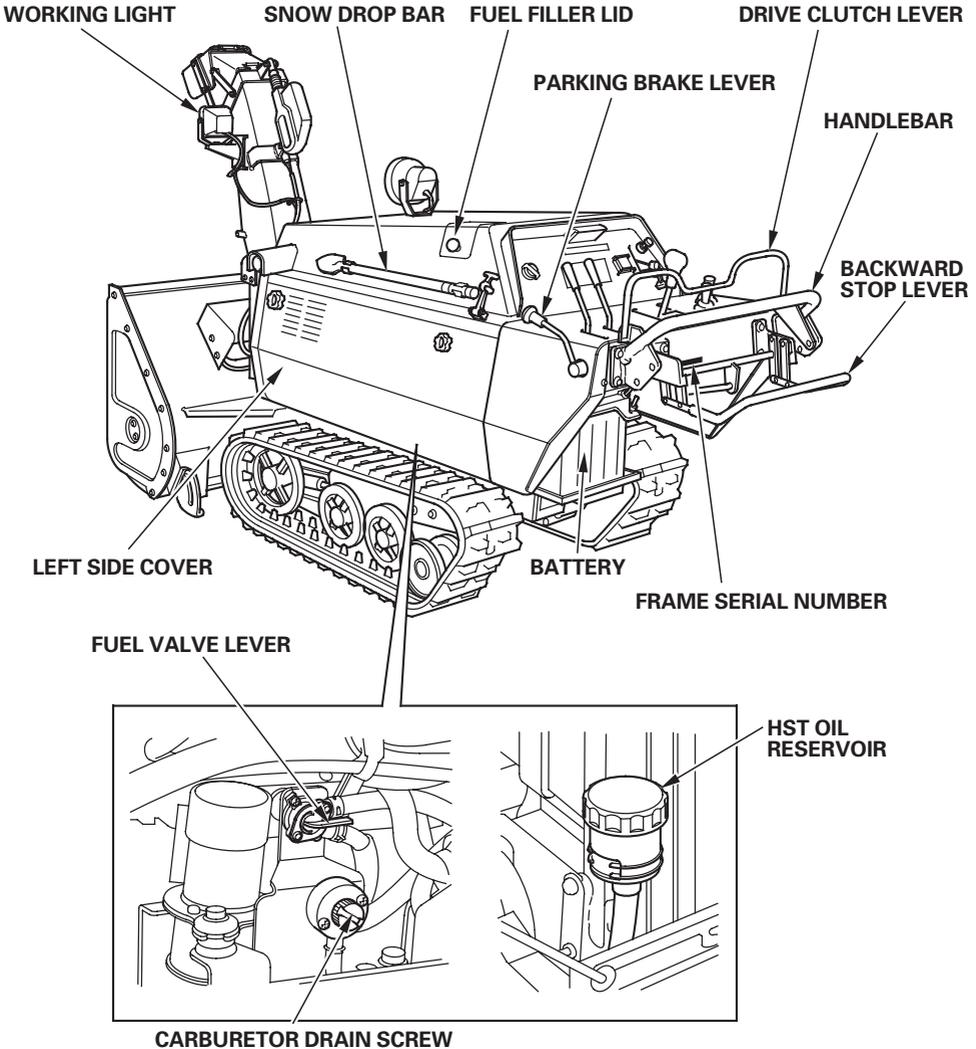
FUEL VALVE LEVER



CARBURETOR DRAIN SCREW

HS1810Z:





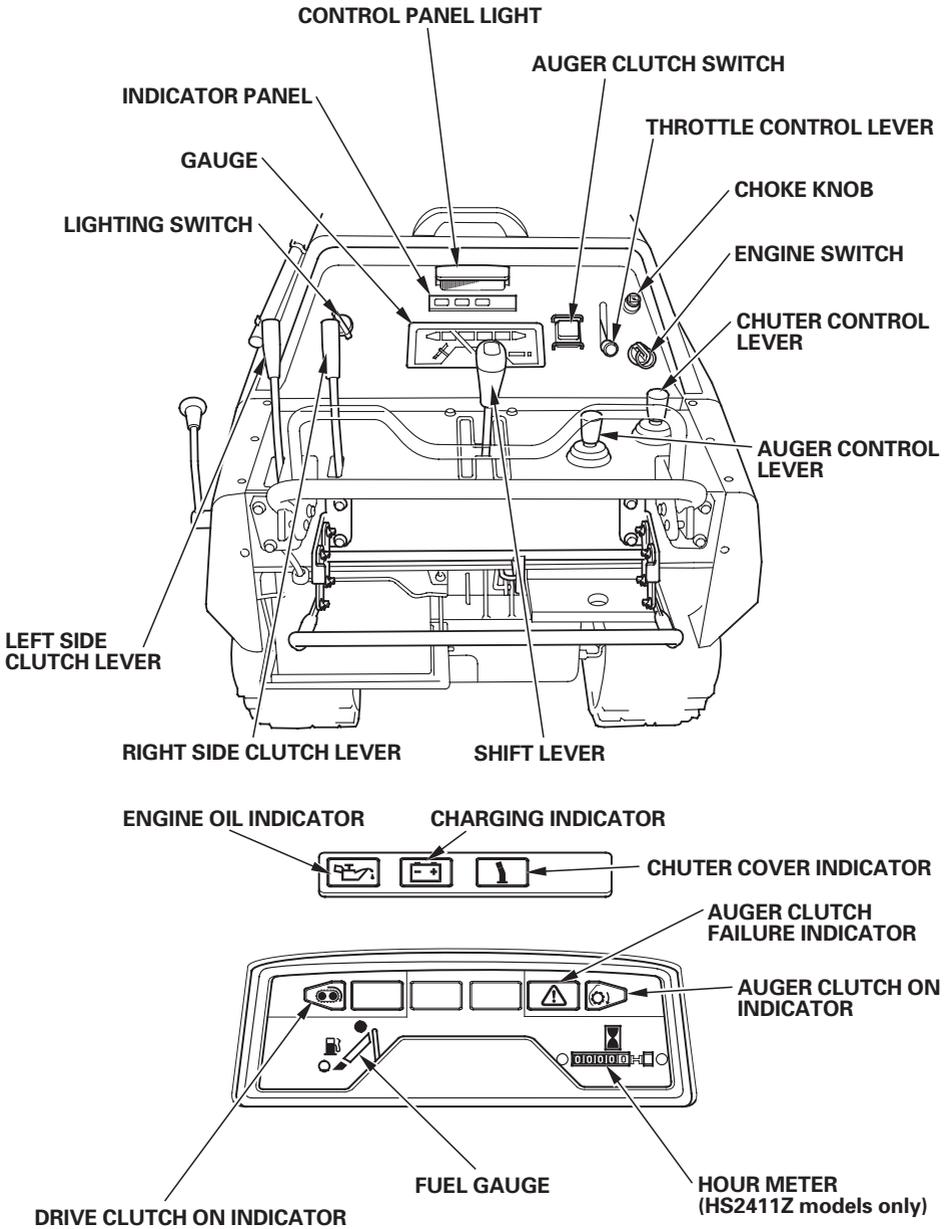
* The frame serial number on the products for Europe is described on the CE mark label (see page 10).

Record the frame serial number and engine serial number (see pages 11 and 13) in the space below. You will need these serial numbers when ordering parts.

Frame serial number: _____

Engine serial number: _____

Control panel



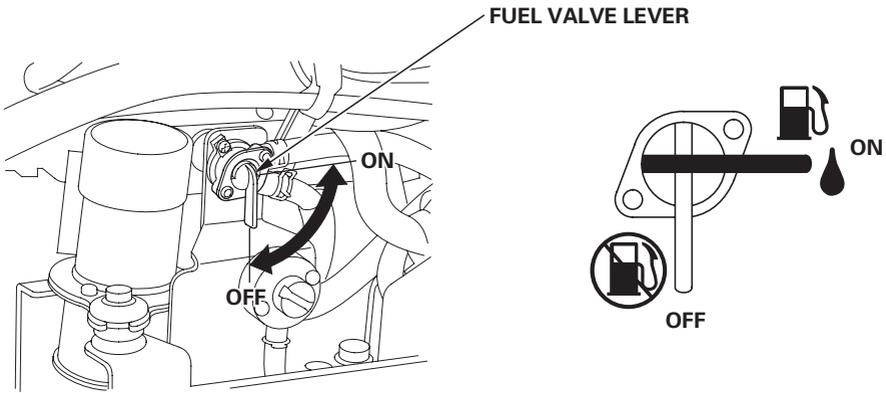
4. CONTROLS

Fuel valve lever

The fuel valve lever opens and closes the fuel line from the fuel tank to the carburetor.

Turn the fuel valve lever to the "ON" position to open the fuel line and turn it to the "OFF" position to close.

Do not turn the fuel valve lever halfway; it should always be at either "ON" or "OFF" position exactly.

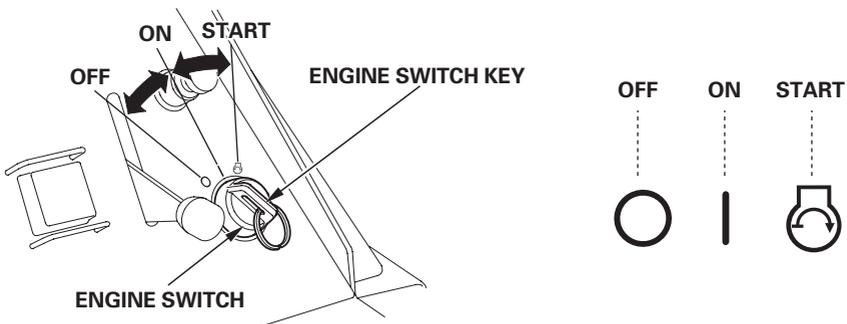


⚠ WARNING

Before transporting the snowblower or tilting it for service, be sure to turn the fuel valve lever to the "OFF" position to prevent possible fuel leaks; spilled fuel or fuel vapor may ignite.

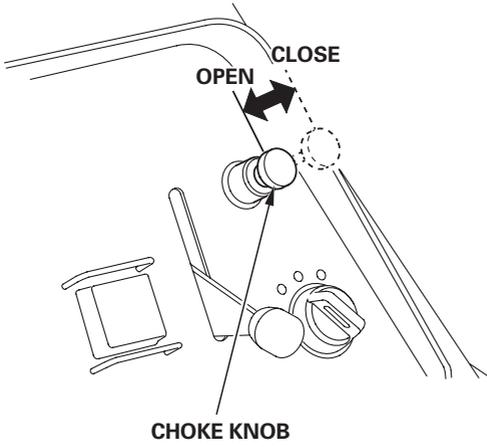
Engine switch

Use the engine switch to turn the ignition system on for starting, and to stop the engine.



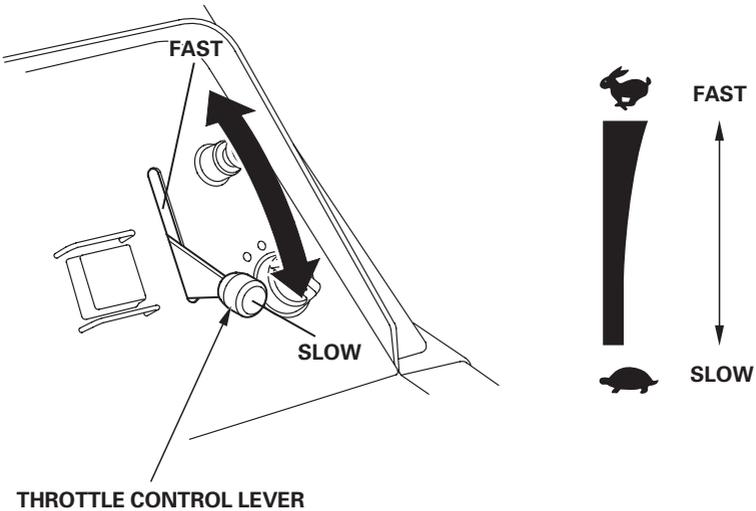
Choke knob

Operate the choke knob to start the engine when the engine is cold or difficult to start.



Throttle control lever

Use the throttle control lever to select the engine speed. In normal operation, use the "FAST" position.



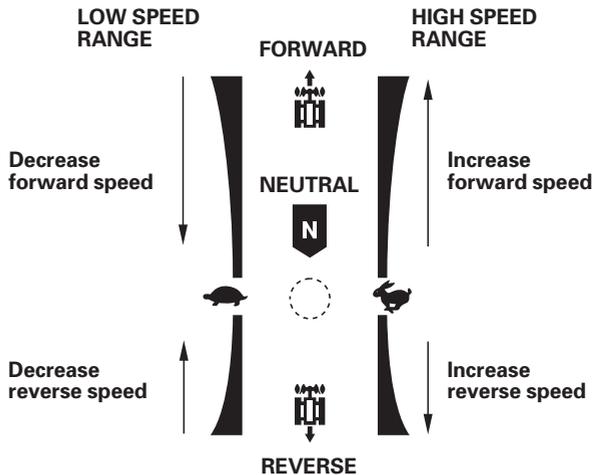
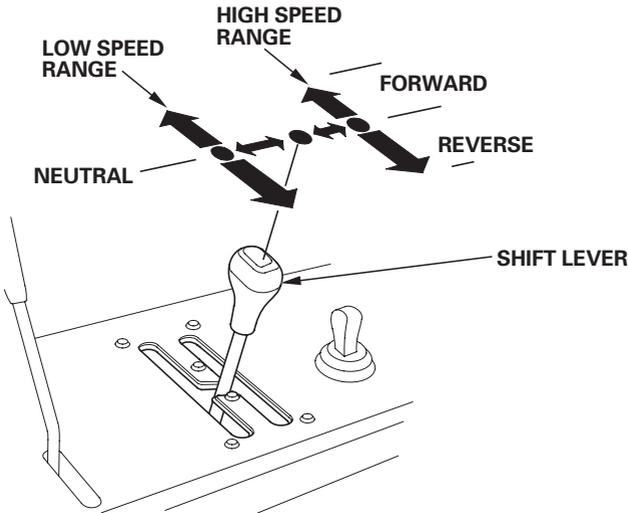
Shift lever

Operate the shift lever to drive the snowblower in forward or in reverse direction.

The shift lever has two ranges, "LOW SPEED" range and "HIGH SPEED" range.

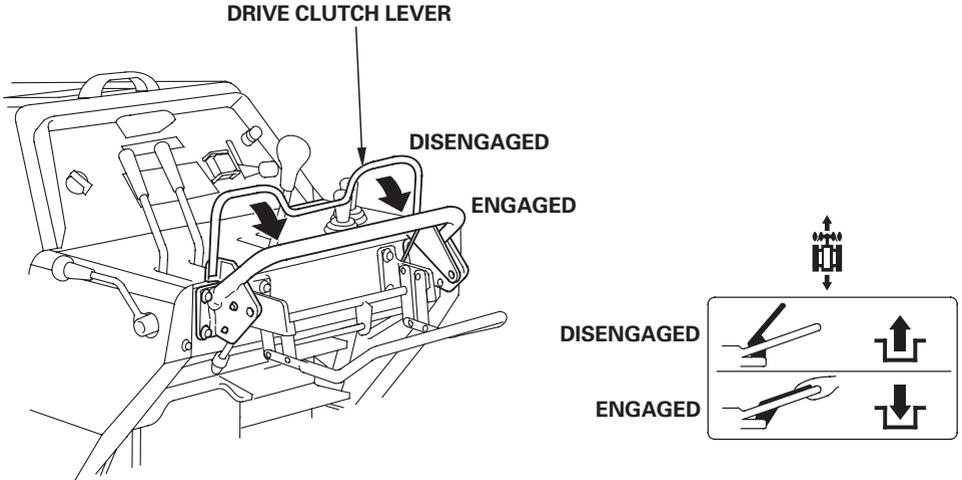
The speed of the snowblower can be increased and decreased in any of these two speed ranges.

Set the shift lever in the "NEUTRAL" position while the snowblower is not in operation.

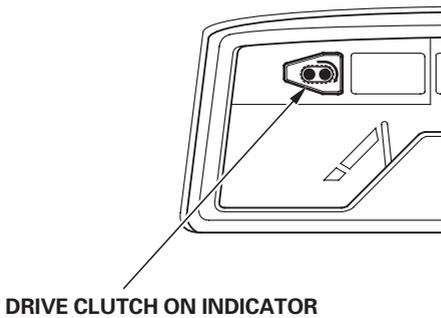


Drive clutch lever

Squeezing the drive clutch lever with the shift lever in the “forward” or “reverse” position, the snowblower moves forward or backward. If the snowblower is transferred, squeeze the drive clutch lever only.



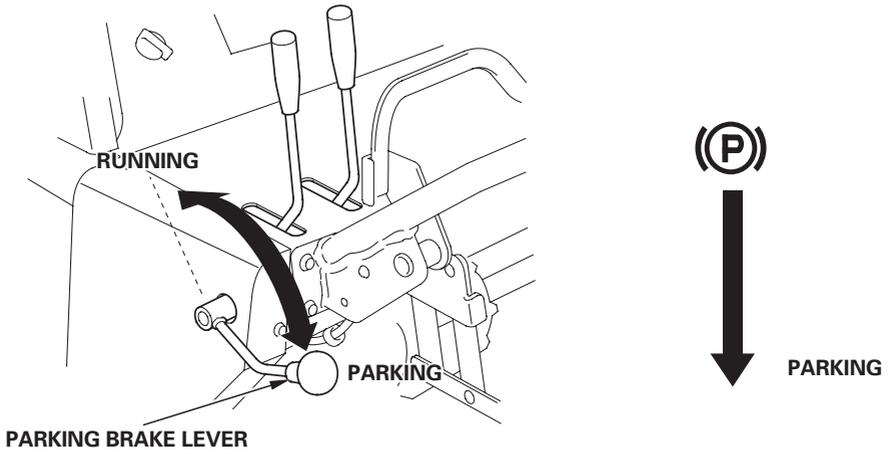
When the drive clutch lever is squeezed, the drive clutch on indicator will come on.



Parking brake lever

Operate the parking brake lever when parking the snowblower. First, pull the parking brake lever in the "PARKING" position. The side clutch levers are locked and the transmission is locked.

Be sure to set the parking brake lever in the "PARKING" position whenever parking the snowblower.

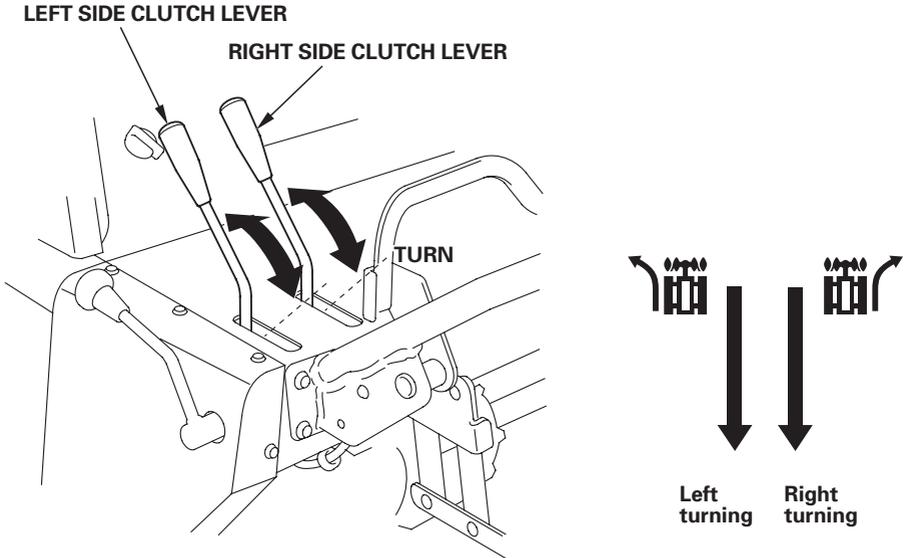


Do not operate the parking brake lever while running. It can adversely affect the transmission.

If you need to park on a slope, set the parking brake lever in the "PARKING" position and shift lever in the "NEUTRAL" position of the "LOW SPEED" range.

Side clutch lever

Use the side clutch lever to turn the snowblower to the right or left. Pulling the right side clutch lever, the snowblower turns to the right. Pulling the left side clutch lever, the snowblower turns to the left.



⚠ WARNING

Be sure to reduce speed when making turns. Use extra care when making turns as the location of the handle and panels relative to the operator will be changed suddenly and can cause injury.

Auger clutch switch

The auger clutch switch turns the auger clutch on and off.

The auger clutch comes on when the auger clutch switch is pushed with the drive clutch on (i.e. drive clutch lever being squeezed), or when the auger clutch switch is kept pushed.

The auger clutch comes on too when the drive clutch lever is squeezed while pushing the auger clutch switch.

To turn off the auger clutch, release the drive clutch lever when the auger clutch is on. The auger clutch can be turned off too by pushing the auger clutch switch again.

When the switch is “ON”:

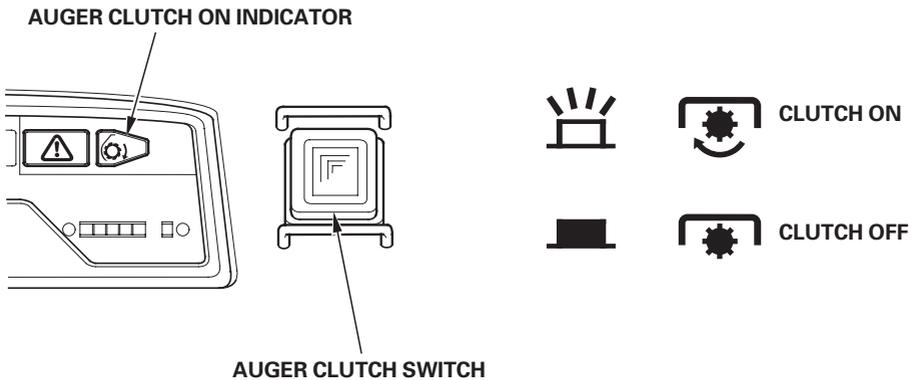
Switch light (green) ON.

Both the auger and blower start to turn. You can clear the snow after the auger clutch “ON” and auger clutch on indicator (green) come ON.

When the switch is “OFF”:

Switch light OFF.

The auger clutch on indicator (green) will go OFF and both the auger and blower will stop.

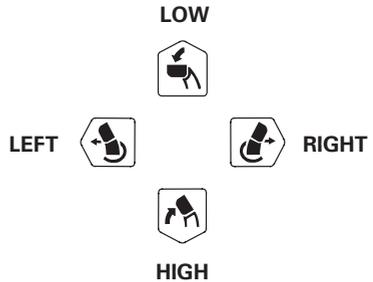
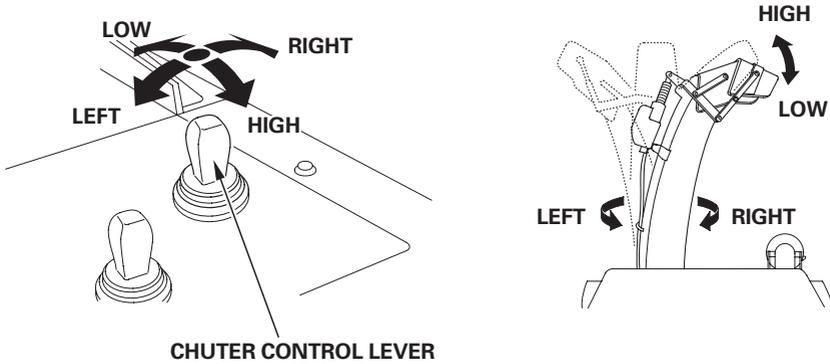


When the auger clutch switch light (green) does not come ON by pushing the switch, take the snowblower to an authorized Honda dealer.

Chuter control lever

The snow discharge direction and angle can be adjusted steplessly by operating the chuter control lever.

Operate the chuter control lever while the engine is running. Operating the chuter control lever while the engine is off will cause a flat battery.



⚠ WARNING

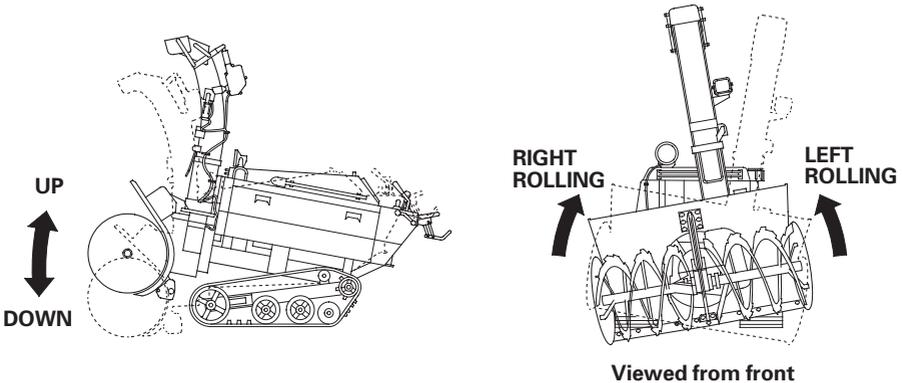
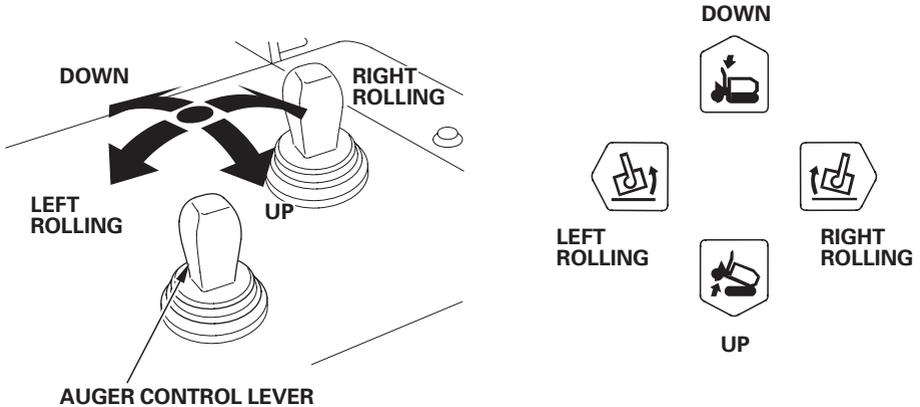
Adjust the snow discharge direction and angle with care not to hit bystanders, windows, and other objects with thrown snow.

Do not hold the chuter control lever operated. The motor overheats and the protection system functions preventing the chuter from moving. Release the chuter control lever once and wait for a while before operating the chuter control lever again.

Auger control lever

Operate the auger control lever to adjust the auger height and tilt angle (see pages 57 and 58 for adjustment).

Operate the auger control lever while the engine is running. Operating the auger control lever while the engine is off will cause a flat battery.



NOTE:

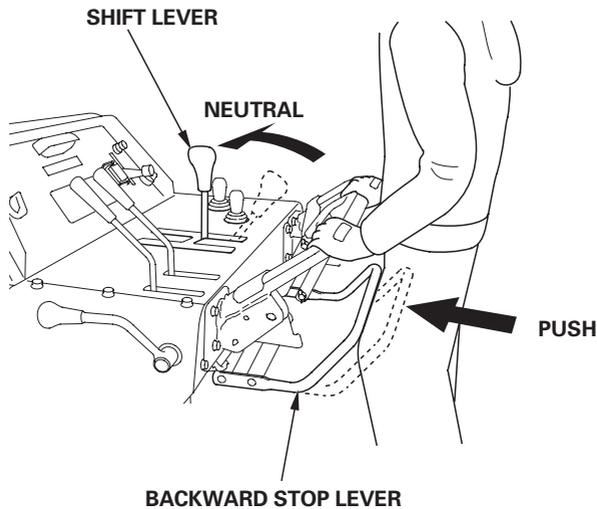
- Do not hold the auger control lever when each operation reaches the end. Otherwise, it may cause the motor to overheat and the protector circuit and motor to malfunction.
- The auger moves from the upper end position to the lower end position in approximately 5 seconds.

Backward stop lever

When the snowblower goes backward, it snowblower can be slowed down and stopped by using the backward stop lever.

If the backward stop lever is pushed, the shift lever will be returned in the direction of the "NEUTRAL" position and the backward speed will slow down and stop.

Furthermore if the backward stop lever is pushed as far forward as it will go, the snowblower will move forward.



- When you stop the snowblower completely, set the drive clutch lever to the "stop" position.

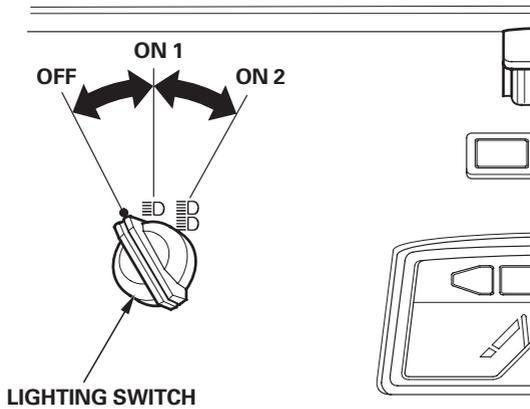
NOTE:

Since a backward stop lever is not a bumper, never ride and never attach a rope. It can cause a failure.

Lighting switch

Operate the lighting switch to turn the light (headlight, working light, and control panel light) ON or OFF.

- OFFThe light will go OFF.
- ☰ ON 1The headlight (on the engine hood) and the control panel light will come ON.
- ☷ ON 2The working light (on the chuter), the control panel and the headlight will come ON.

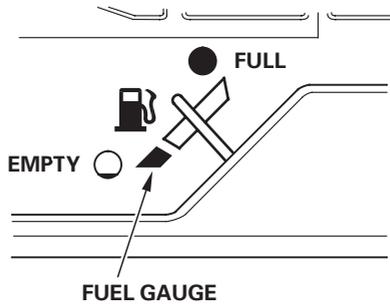


NOTE:

Be sure to use the headlight, working light and the control panel light while the engine is running. The battery is discharged when the lights are ON while the engine is off.

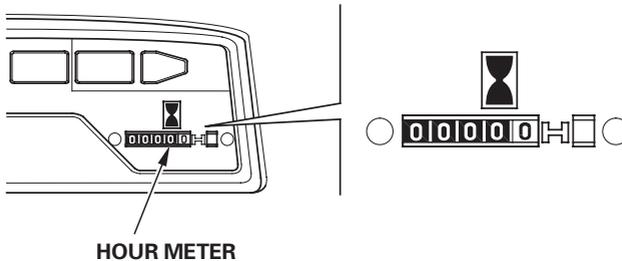
Fuel gauge

The fuel gauge indicates the amount of fuel in the tank with the engine switch in the "ON" position.



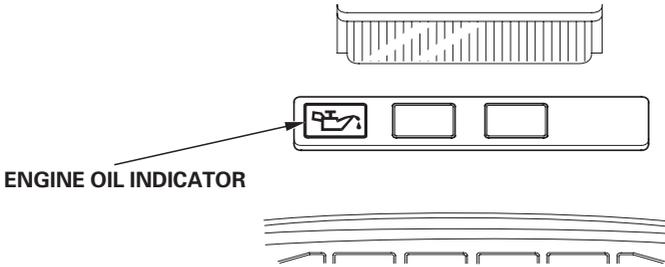
HS2411Z models only: Hour meter (Integrating hour meter)

The hour meter shows the total operation hours of the snowblower. The last number on the right of the 5 digit number represents one tenth of the first decimal until of time. Check the hour meter to find the recommended maintenance period of your snowblower.



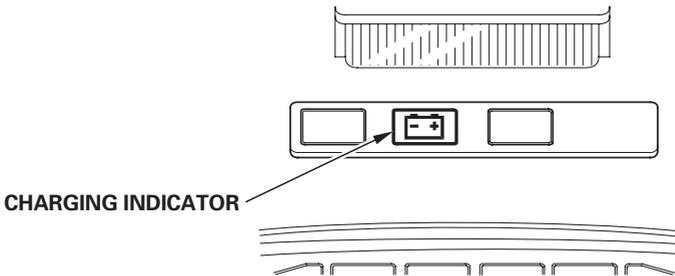
Engine oil indicator (red)

If the amount of oil is inadequate while the engine is running, the engine oil indicator (red) will come ON. The engine oil indicator (red) will come ON when the engine switch is turned to the "ON" position. The engine oil indicator (red) will go OFF when the engine is started. If the engine oil indicator (red) stays on while the engine is running, stop the engine immediately, and check the engine oil level. If the engine oil level is normal, take the snowblower to an authorized Honda dealer.



Charging indicator (red)

If the battery charging system is malfunctioning while the engine is running, the charging indicator (red) will come ON. The charging indicator (red) will come ON when the engine switch is turned to the "ON" position. The charging indicator (red) will go OFF when the engine is started. If the charging indicator (red) comes ON while engine is running, stop the engine immediately, and take the snowblower to an authorized Honda dealer.



NOTE:

If the engine oil indicator (red) and the charging indicator (red) do not come ON, when the engine switch is turned to the "ON" position, take the snowblower to an authorized Honda dealer.

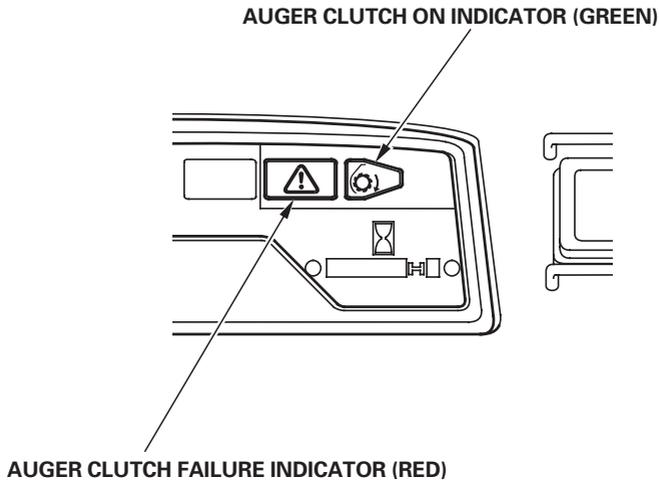
Auger clutch on indicator (green)

If the auger clutch switch pushed to "ON", the auger clutch on indicator (green) will come on, and the auger rotates.

Auger clutch failure indicator (red)

If the auger clutch circuit is malfunctioning, engine should stop and the auger clutch failure indicator (red) comes on.

If the auger clutch failure indicator (red) comes on, take the snowblower to an authorized Honda dealer.



NOTE:

The auger clutch on indicator (green) and the auger clutch failure indicator (red) come ON for several seconds and go OFF after the engine switch is turned to the "ON" position. If the auger clutch on indicator (green) and the auger clutch failure indicator (red) do not come ON, take the snowblower to an authorized Honda dealer.

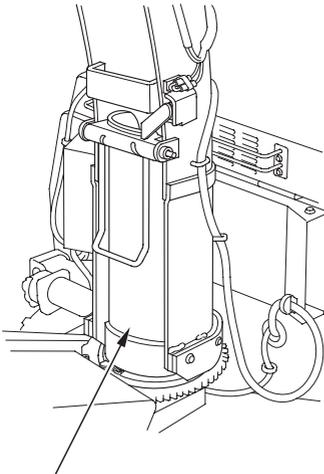
Chuter cover and chuter cover indicator (orange)

When the chuter is clogged with snow, remove the chuter cover and remove the snow using the snow drop bar (see page 31).

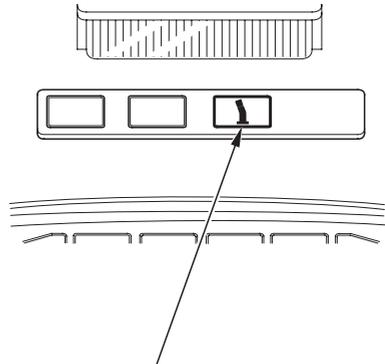
After removing the snow, set the chuter cover securely.

Note that the chuter cover indicator (orange) will go ON and the engine does not start unless the chuter cover is set properly.

If the chuter cover is installed correctly, but the chuter cover indicator (orange) stays on, take the snowblower to an authorized Honda dealer.



CHUTER COVER

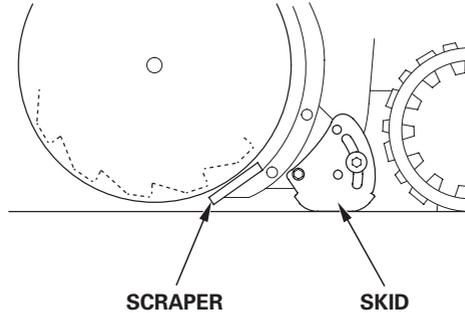


CHUTER COVER INDICATOR (ORANGE)

The chuter cover indicator (orange) comes on for several seconds and will go OFF after the engine switch is turned to the "ON" position. If the chuter cover indicator (orange) does not come ON, take the snowblower to an authorized Honda dealer.

Skid and Scraper

Adjust the skid and the scraper according to the road surface condition where you are to clear the snow. Use the skid to determine the height from the ground to the auger, and adjust the scraper to make the snow surface even (see pages 54–56).

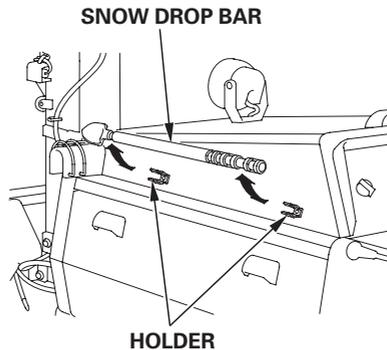


Snow drop bar

If the snow discharge chute or snow blowing mechanism becomes clogged, stop the engine and use this bar to unclog them. After unclogging, wipe the snow drop bar clean, and store it in the holders.

▲WARNING

Before removing clogged snow, be sure to stop the engine, and make sure that all rotating parts have come to a complete stop. Remove the spark plug cap from the spark plug.



Engine hood

Opening/Closing

CAUTION:

Direct the chuter forward before opening the engine hood. Opening the engine hood with the chuter directed sideways can cause the chuter and/or wire harness to interfere with the front end of the engine hood.

HS2411Z

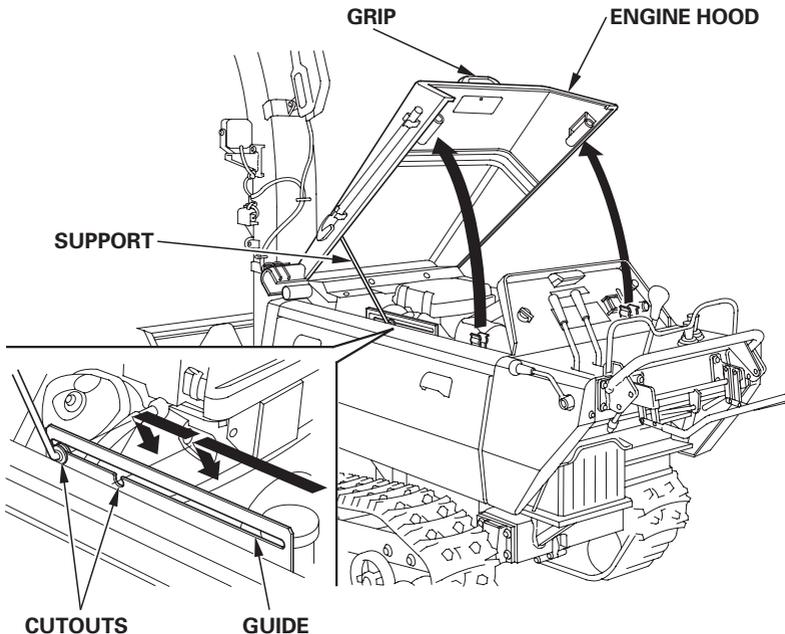
To open:

Hold the grip and lift up the engine hood until the support is set in the cutout in the guide securely.

To close:

Lift up the engine hood a little and bring the support out of the cutout in the guide.

Close the engine hood slowly and lock the hood securely.



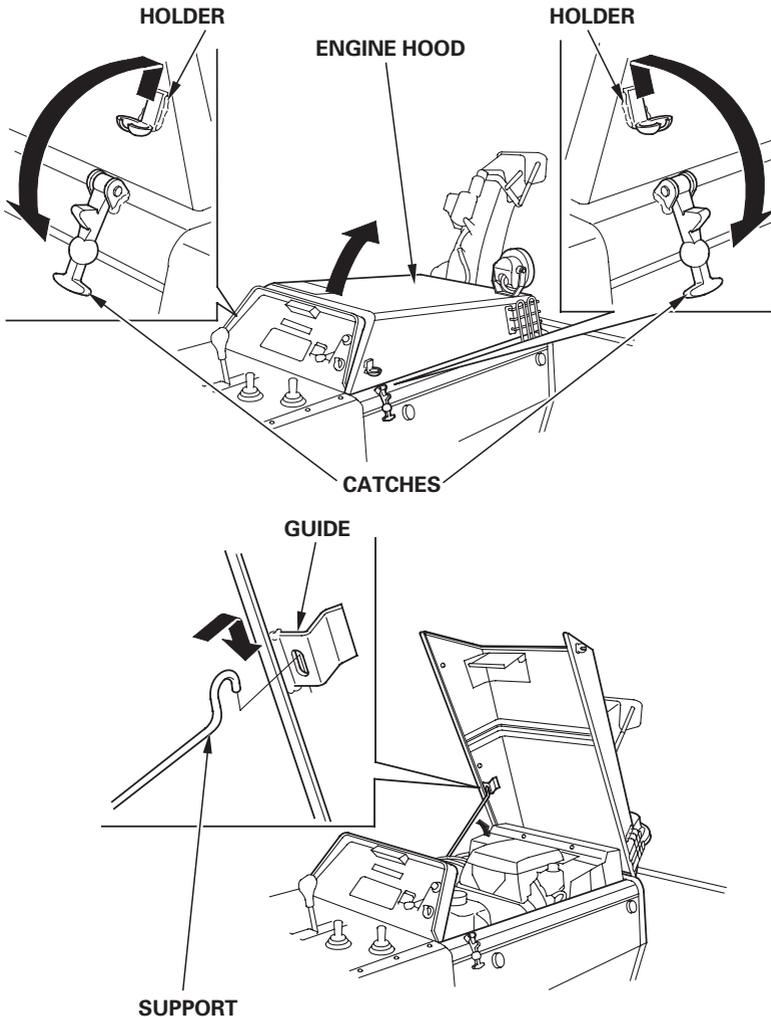
HS1810Z

To open:

Pull off the engine hood catches from the holder, and lift up the engine hood until the support is set in the guide securely.

To close:

Lift up the engine hood a little and bring the support out of the guide, and close the engine hood slowly, pull the catches up and set to the holder.



Side cover

Removal/Installation

HS2411Z

To remove:

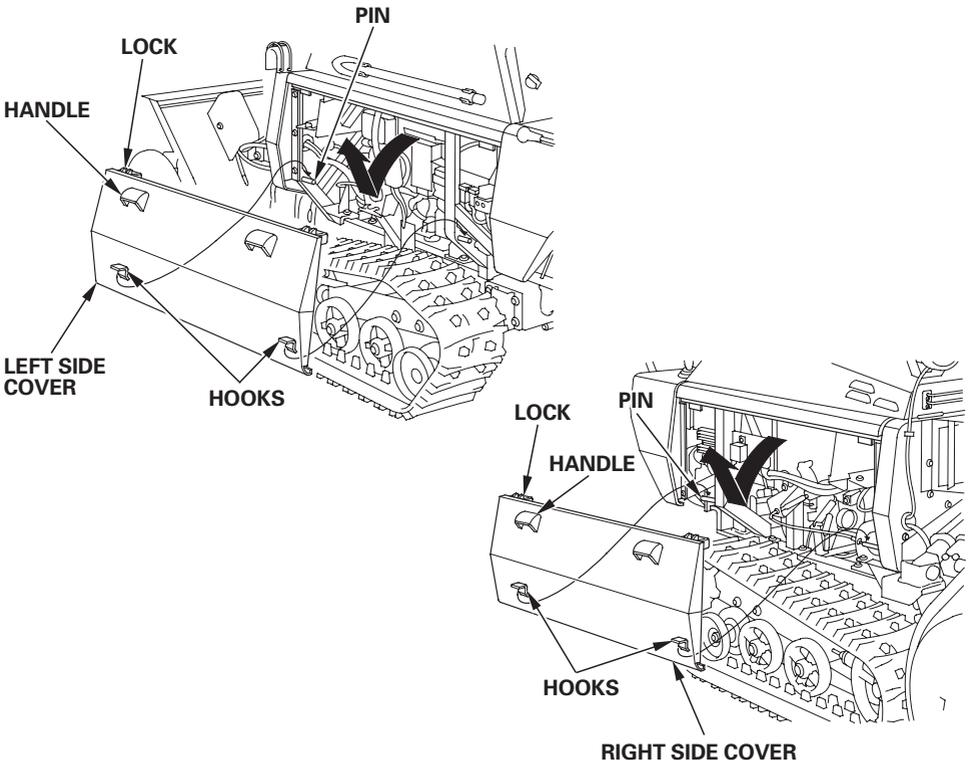
Open the upper part of the side cover by pulling the handles toward you. Then, lift up the side cover and remove it.

To install:

Align the hooks on the side cover with the pins on the frame. Push the upper part of the side cover against the frame of the snowblower and lock the side cover.

NOTE:

The side cover does not lock on the frame if the locks are folded. Raise the locks and close the side cover again.



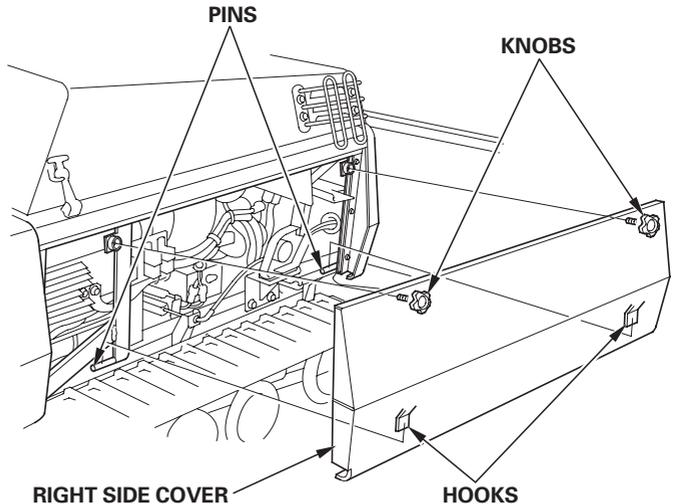
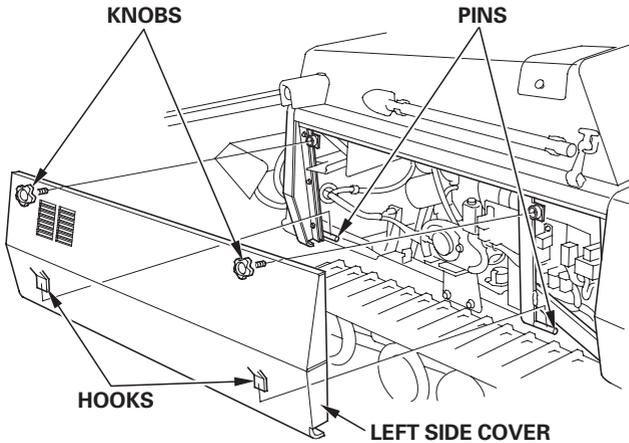
HS1810Z

To remove:

Loosen the knobs by turning them counterclockwise and lean the upper part of each side cover outward a little. Pull up each side cover, and then remove it.

To install:

Align the hooks on the underside of each of the right and left side covers with the pins on the frame. Install each side cover and tighten the knobs securely by turning them clockwise.



HS2411Z models only:
Weights (optional parts)

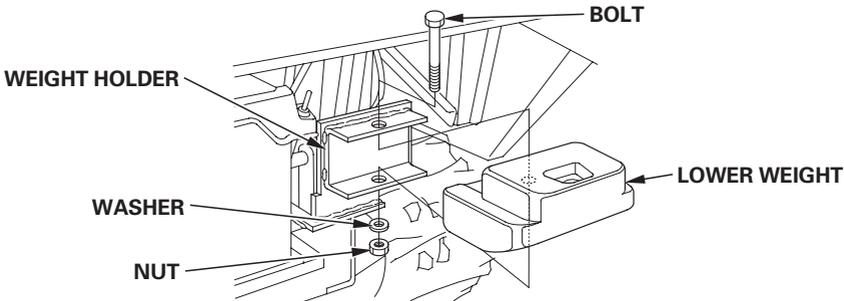
For clearing in steps, the specified weights (optional parts) can be mounted on the weight holder (see page 65 for clearing in steps). Do not set any parts but the weights on the weight holder. Do not use the weight holder for towing, etc.

Use only the specified weights and use the upper and lower weights as a set. Order the weights for the snowblower from an authorized Honda dealer.

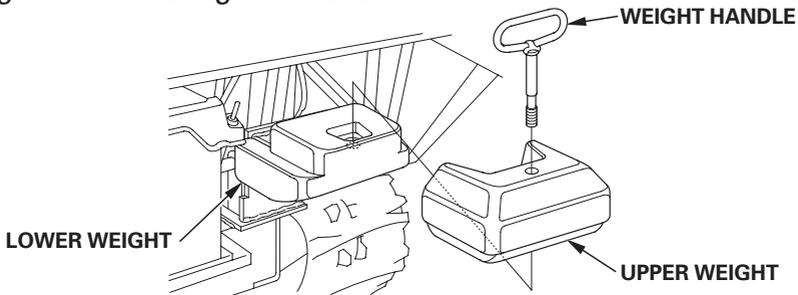
Each weight weighs approximately 15 kg. If you can not install the weights by yourself, consult an authorized Honda dealer.

Installation:

1. Set the lower weight on the weight holder and insert the mounting bolt.
2. Set the washer and nut on the mounting bolt and tighten the mounting bolt securely.



3. Set the upper weight on the lower weight and secure the upper weight with the weight handle.



Removal:

Removal procedure is the reverse order of "Installation".

5. PRE-OPERATION CHECK

Check the snowblower on level ground with the engine stopped.

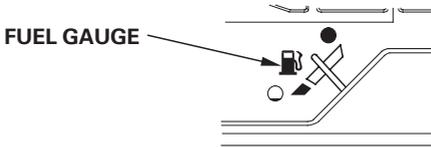
⚠ WARNING

To prevent accidental start-up, remove the engine switch key, and disconnect the spark plug cap before performing the pre-operation check.

Fuel level

Inspection:

Turn the engine switch to the "ON" position, and check the fuel gauge. Refill the fuel tank if the gauge shows that fuel level is low.

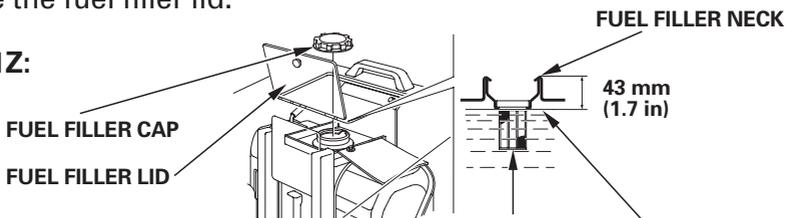


Refilling:

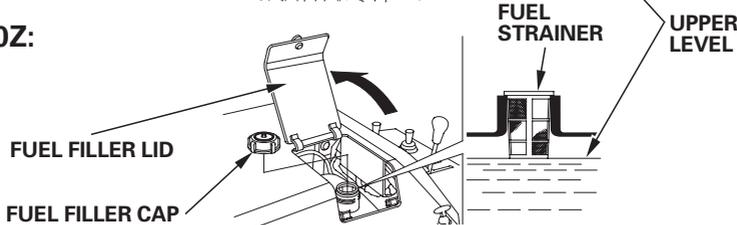
Use unleaded gasoline with a Research Octane Number of 91 or higher (a Pump Octane Number of 86 or higher). Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

1. Open the fuel filler lid by pulling up the knob.
2. Remove the fuel filler cap and fill the tank with the recommended gasoline up to the upper level. Do not fill beyond the upper level.
3. Tighten the fuel filler cap securely.
4. Close the fuel filler lid.

HS2411Z:



HS1810Z:



▲ WARNING

- Gasoline is extremely flammable and is explosive under certain conditions.
- Refuel in a well-ventilated area with the engine stopped.
Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- Avoid repeated or prolonged contact with skin or breathing of vapor. **KEEP OUT OF REACH OF CHILDREN.**

CAUTION:

Gasoline substitutes are not recommended; they may be harmful to fuel system components.

NOTE:

Gasoline spoils very quickly depending on factors such as light exposure, temperature and time.

In worst cases, gasoline can be contaminated within 30 days.

Using contaminated gasoline can seriously damage the engine (clogged carburetor, stuck valve).

Such damage due to spoiled fuel is disallowed from coverage by the warranty.

To avoid this please strictly follow these recommendations:

- Only use specified gasoline (see page 37).
- Use fresh and clean gasoline.
- To slow deterioration, keep gasoline in a certified fuel container.
- If long storage (more than 30 days) is foreseen, drain fuel tank and carburetor (see page 92).

GASOLINES CONTAINING ALCOHOL

If you decide to use a gasoline containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by Honda.

There are two types of "gasohol": one containing ethanol, and the other containing methanol.

Do not use gasohol that contains more than 10% ethanol.

Do not use gasoline containing more than 5% methanol (methyl or wood alcohol) and that does not also contain co-solvents and corrosion inhibitors for methanol.

NOTE:

- Fuel system damage or engine performance problems resulting from the use of gasoline that contains more alcohol than recommended is not covered under the warranty.
- Before buying gasoline from an unfamiliar station, first determine if the gasoline contains alcohol, if it does, find out the type and percentage of alcohol used.

If you notice any undesirable operating symptoms while using a particular gasoline. Switch to a gasoline that you know contains less than the recommended amount of alcohol.

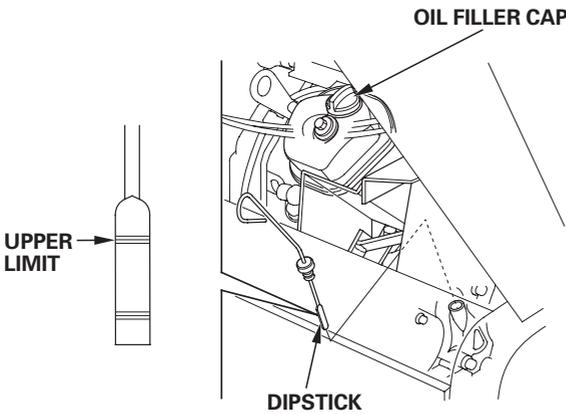
Inspection before first use in the season

When the snowblower is refueled for the first time after the prolonged storage, check for fuel leakage from the fuel lines and carburetor drain tube in the following procedure.

1. After filling the fuel, remove the left side cover (see page 34 or 35).
2. Make sure that the carburetor drain screw is tightened securely. Fuel leakage occurs unless the carburetor drain screw is tightened properly.
3. Turn the fuel valve lever to the "ON" position.
4. Turn the engine switch to the "ON" position, and be sure that the fuel is not leaking from the carburetor drain tube.

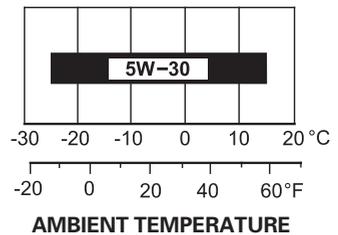
Engine oil level

1. Open the engine hood (see page 32 or 33).
The oil level dipstick is located on the front right side of the engine.
2. Clean the area around the oil dipstick, remove it and wipe the dipstick with a clean cloth.
3. Reinstall the dipstick, remove and check the oil level.
4. If the oil level is low (near the bottom), remove the oil filler cap and add enough of the recommended oil to bring the level to the upper limit. Recheck the oil level after adding any oil.



RECOMMENDED OIL:

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SE or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SE or later (or equivalent).

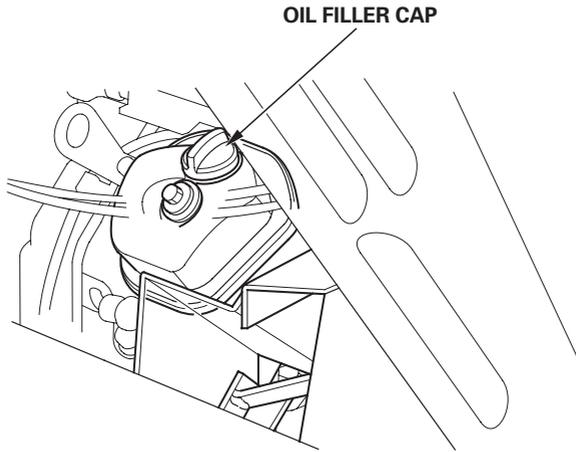


SAE 5W-30 is recommended for general use.

CAUTION:

- **Engine oil is a major factor affecting engine performance and service life. Nondetergent oils and 2-stroke engine oils are not recommended because of inadequate lubricating properties.**
- **Running the engine with insufficient oil can cause serious engine damage.**

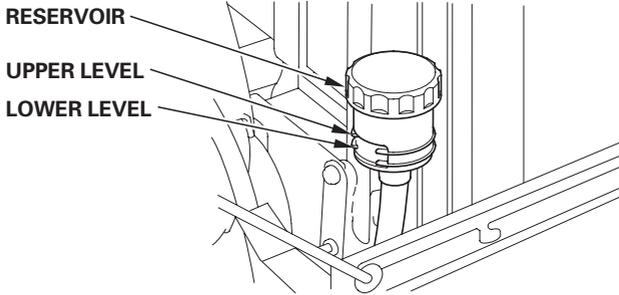
5. Reinstall the oil filler cap securely, and close the engine hood (see page 32 or 33).



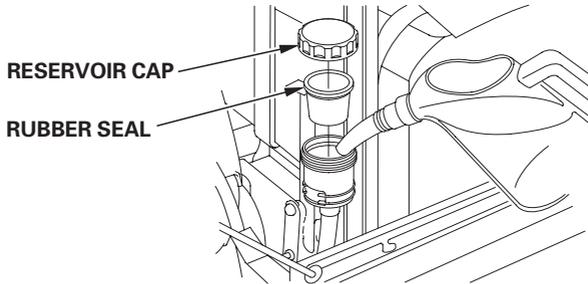
HST (hydrostatic transmission) oil level

Check the HST oil level while the transmission is cold.

1. Open the engine hood (see page 32 or 33).
2. Check that the oil level is anywhere between the "UPPER" and "LOWER" level marks on the reservoir.



3. If the oil level is low, fill to the upper level mark. Remove the reservoir cap and rubber seal, and add recommended oil up to the "UPPER" level mark.



Recommended oil:

The same as the recommended engine oil (see page 40).

CAUTION:

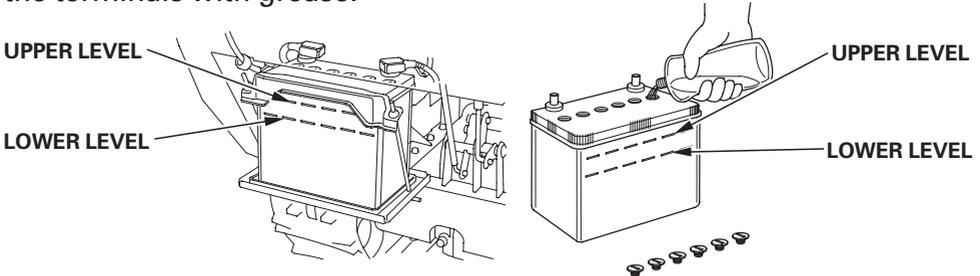
- **Never remove the rubber seal unless it is necessary to replenish the reservoir with oil. Be careful not to allow foreign particles to enter the reservoir when replenishing the oil.**
 - **If the oil level is abnormally low, stop operating the snowblower immediately, an authorized Honda dealer.**
4. After replenishing, reinstall the rubber seal and reservoir cap securely, then close the engine hood (see page 32 or 33).

Battery

Check the electrolyte level in each battery cell.

If the level is low, remove the battery (see page 85) and fill the battery cell with distilled water to the upper level line. Never overfill the battery.

Any corrosion around the battery terminals should be washed off with a solution of baking soda and warm water. Dry the terminals and coat the terminals with grease.



▲WARNING

- The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using batteries in an enclosed space.
- The battery contains sulfuric acid (electrolyte). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.
 - If electrolyte gets on your skin, flush with water.
 - If electrolyte gets in your eyes, flush with water for at least 15 minutes and call a physician immediately.
- Electrolyte is poisonous.
 - If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician.
- KEEP OUT OF REACH OF CHILDREN.

CAUTION:

- Use only distilled water in the battery. Tap water will shorten the service life of the battery.
- Do not fill the battery beyond the UPPER LEVEL. If overfilled, electrolyte may overflow and corrode snowblower components. Immediately wash off any spilled electrolyte.

Auger clutch switch

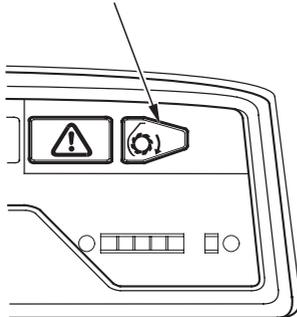
Check whether the safety systems of the auger clutch switch function properly. If there is any abnormality, consult an authorized Honda dealer and have them check and service your snowblower immediately.

▲WARNING

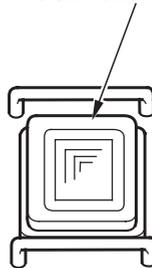
This inspection must be made with the engine started and by moving the snowblower and auger. Check that there is no person, pet and obstacle around the snowblower before starting the inspection. Be sure that the chuter is not pointed at any person, window glass, etc.

1. Park the snowblower on level ground. Be sure that the parking brake lever is in the "PARKING" position and the shift lever is in the "NEUTRAL" position.
2. Start the engine and set the throttle control lever in the "SLOW" position.
3. Push the auger clutch switch, and make sure that the switch light (green) will go ON for a several seconds and will go OFF, and then auger does not turn.
4. Squeeze and hold the drive clutch lever, push the auger clutch switch. Be sure that the switch light (green) and the auger clutch on indicator (green) will go ON, and then auger starts to turn.
5. Release the drive clutch lever when the switch light (green) will go OFF. Make sure that the auger clutch switch turns to the "OFF".
6. Stop the engine.

AUGER CLUTCH ON INDICATOR

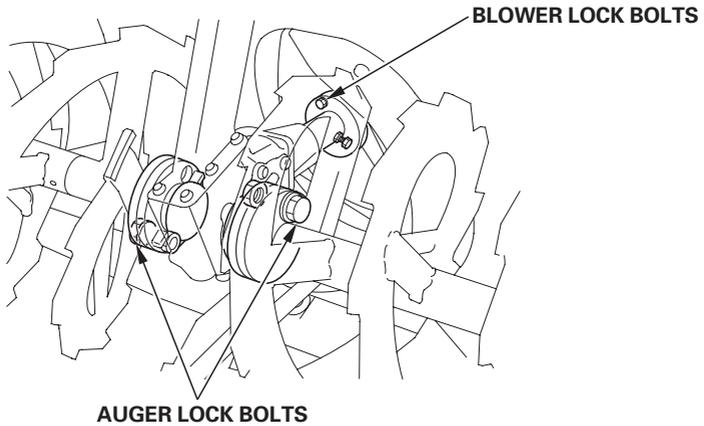


AUGER CLUTCH SWITCH



Auger and blower lock bolts

1. Park the snowblower on level ground. Be sure that the parking brake lever is in the "PARKING" position and the shift lever is in the "NEUTRAL" position.
2. Stop the engine and remove the engine switch key.
3. Check the auger and blower for loose or broken bolts, if broken, replace them with new ones (see page 89).



Drive clutch lever

1. Be sure to park the snowblower on a level surface, set the parking brake lever in the "PARKING" position, then set the shift lever in the "NEUTRAL" position.
2. Starting the engine and throttle control lever to the "SNOW" position.
3. Squeezing the drive clutch lever.
4. Set the parking brake lever to the "RUNNING" position, and move the shift lever to the "FORWARD" position of the "LOW SPEED" range.
It is normal if snowblower can move forward at low speed.
5. Release the drive clutch lever, and check the snowblower stops.
6. Stop the engine, and the shift lever to the "NEUTRAL" position and the parking brake lever to the "PARKING" position.

Backward stop lever

1. Be sure to park the snowblower on a level surface, set the parking brake lever in the "PARKING" position, then set the shift lever in the "NEUTRAL" position, and stop the engine.
2. Move the shift lever up to the limit in the direction of the "REVERSE" position.
3. Push the backward stop lever.
Check the backward stop lever moves smoothly, it is normal if the shift lever returns to the "NEUTRAL" position.
When the backward stop lever is abnormally heavy, consult an authorized Honda dealer.

Other checks

Be sure to perform the following inspection.

1. Check each tightening point and joint for looseness and wobbles.
2. Check each part for operation.
3. Check each part that had been found abnormal in the previous operating day.

6. STARTING THE ENGINE

▲WARNING

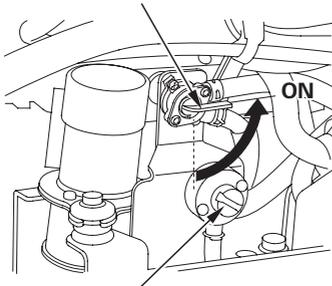
Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure can cause loss of consciousness and may lead to death.

CAUTION:

- Never hold or squeeze the drive clutch lever and auger clutch switch when operating the starter motor; the machine will start suddenly as the engine starts, resulting in accident or injury.
- To start and stop the engine and snowblower on a sloping surface, be sure to set the shift lever in the "NEUTRAL" position with the drive clutch lever released.

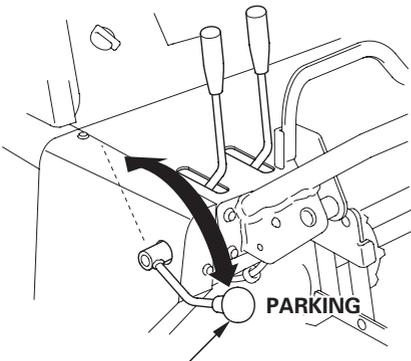
1. Remove the left side cover (see page 34 or 35).
2. Turn the fuel valve lever to the "ON" position. Be sure that the carburetor drain screw is tightened securely. Reinstall the left side cover securely (see page 34 or 35).

FUEL VALVE LEVER

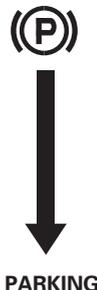


CARBURETOR DRAIN SCREW

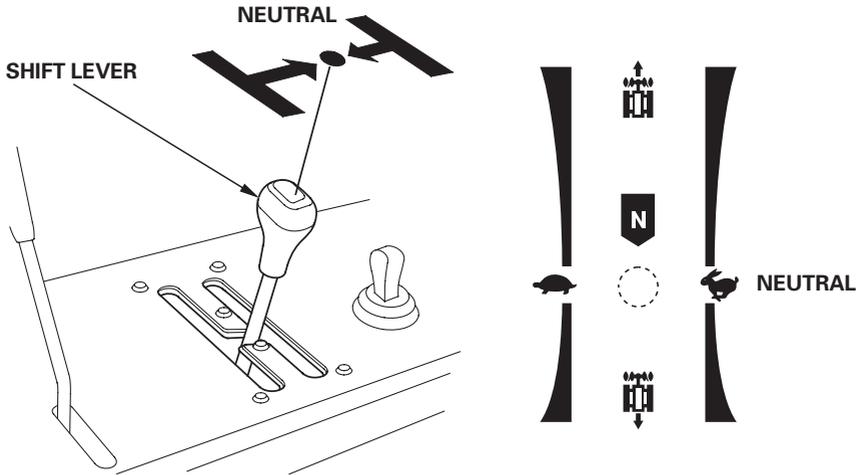
3. Set the parking brake lever in the "PARKING" position.



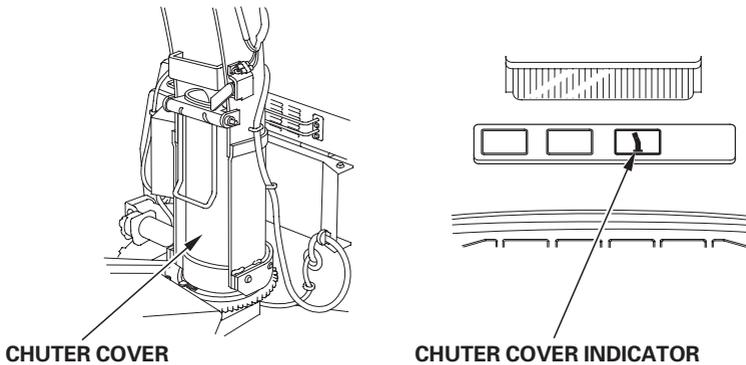
PARKING BRAKE LEVER



4. Set the shift lever in the "NEUTRAL" position.



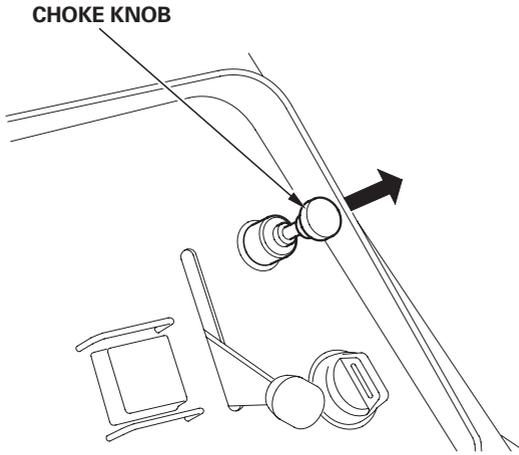
5. Make sure that the chuter cover is installed correctly.



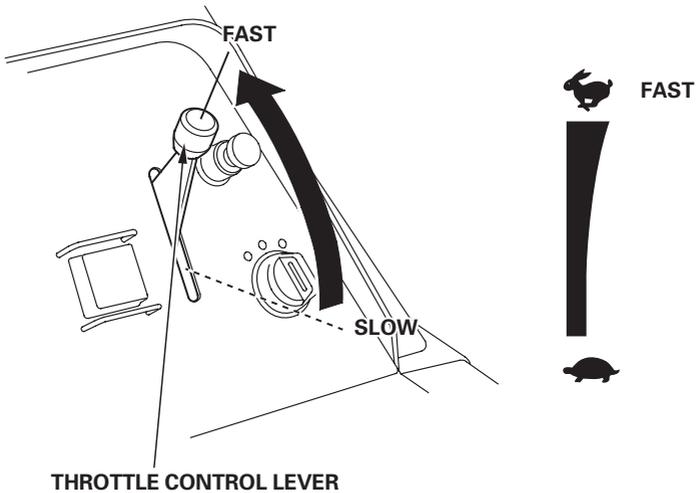
NOTE:

The chuter cover indicator (orange) comes ON and the engine does not start unless the chuter cover is set properly.

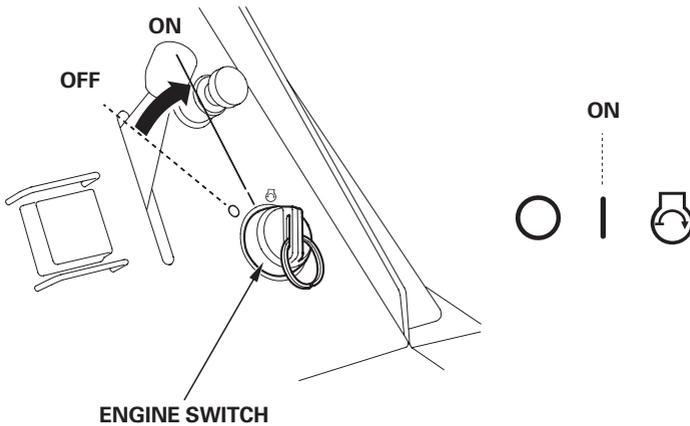
6. Pull the choke knob fully.



7. Move the throttle control lever to the "FAST" position.



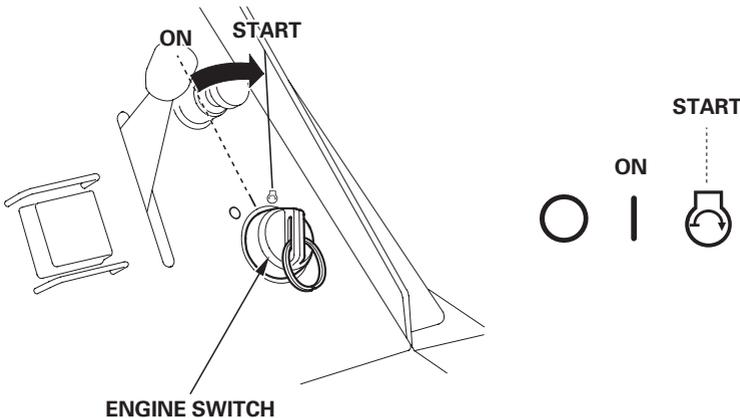
8. Turn the engine switch to the "ON" position, and check the indicator lights.



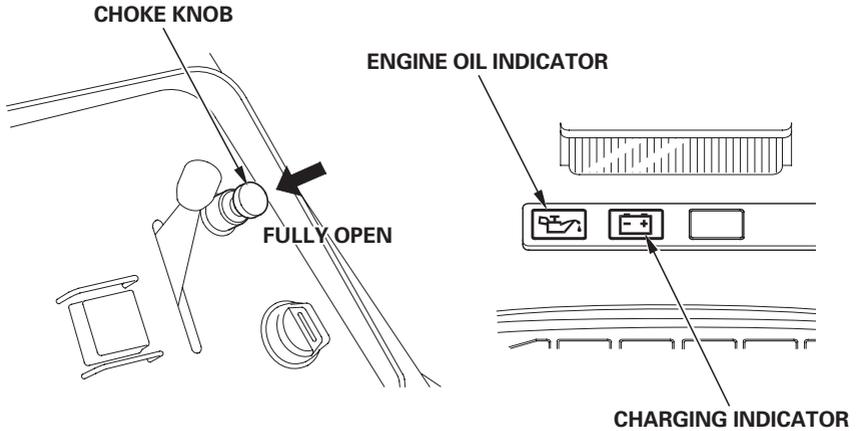
9. Turn the engine switch to the "START" position and release the switch after the engine is started. The switch automatically returns to the "ON" position.

CAUTION:
If the engine does not start within 5 seconds after cranking the starter, wait for about 10 seconds and restart the engine.

When the snowblower is refueled for the first time after prolonged storage, the engine does not start until the carburetor is filled with the gasoline. Turn the engine switch to the "ON" position and wait for a several seconds.



10. After starting the engine, check that the engine speed is stabilized and release the choke knob back slowly. Move the throttle control lever to the "SLOW" position gradually and warm up the engine to the normal operating temperature. Also check the engine oil and charging indicator (red) go OFF after engine starts.

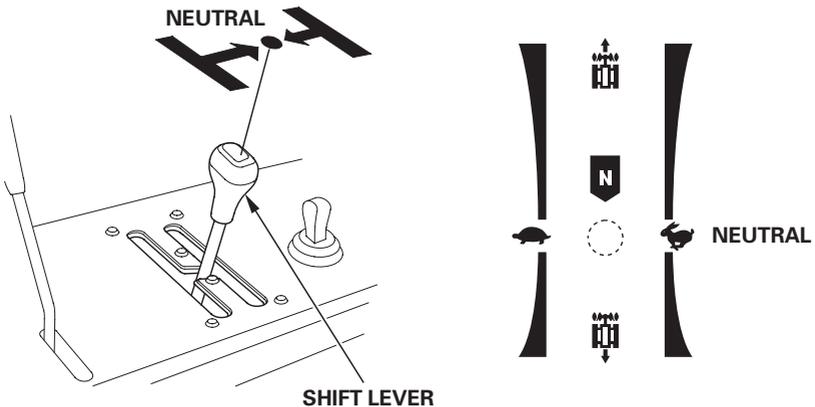


11. While warming the engine up, also warm up the transmission as follows.

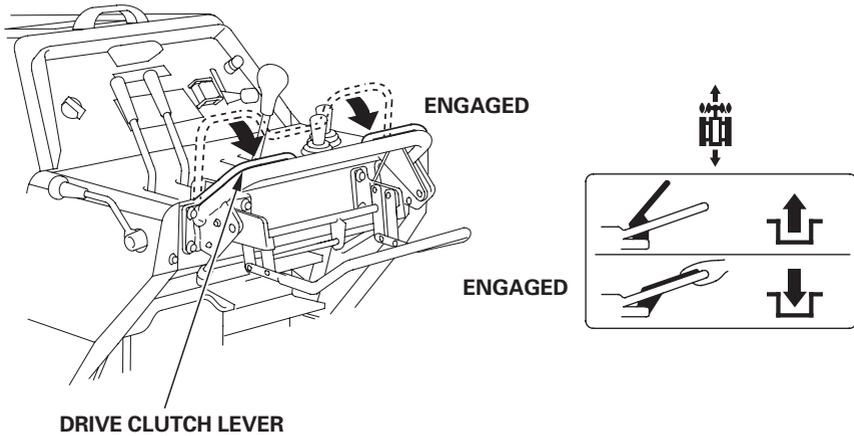
CAUTION:

Operating the snowblower without warming up the transmission causes damage to the HST (hydrostatic transmission).

a. Check that the shift lever is in the "NEUTRAL" position.

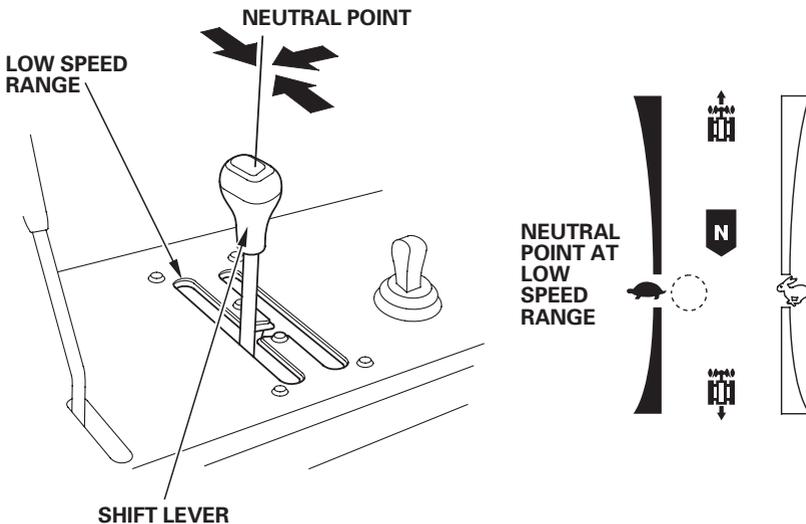


b. Set the parking brake lever in the "PARKING" position. Squeeze the drive clutch lever about 30 seconds.



Engine start on slope

Set the parking brake lever in the "PARKING" position. Set the shift lever in the "NEUTRAL" position of the "LOW SPEED" range (i.e. where the snowblower does not move by squeezing the drive clutch lever) and start the engine according to the starting procedure. The snowblower can run idle when the shift lever is set in the "NEUTRAL" position with the parking brake applied.



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 emission.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your snowblower at altitudes above 1,500 meters (5,000 feet), have your authorized Honda 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 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

CAUTION:

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 1,500 meters (5,000 feet) 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.

7. SNOWBLOWER OPERATION

▲ WARNING

Before operating this equipment you should read and understand the SAFETY INSTRUCTIONS on page 3 through 7 .

Efficiency of the snow removal work is significantly affected by the snow condition (e.g. dry, wet etc.). Adjust the skid position and the auger housing height as needed for the optimum snow removal.

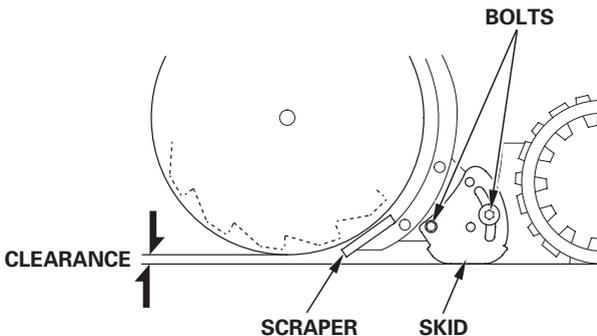
Skid, Scraper

Adjust the skid for the auger housing ground clearance best suited to your snow removal conditions.

▲ WARNING

To prevent accidental starting, turn the engine switch to the "OFF" position and disconnect the spark plug cap.

1. Park the auger snowblower on level ground clearance best suited to your parking.
2. Hold the auger housing horizontally and lower the auger to the ground operating the auger control lever.
3. Turn the engine switch to the "OFF" position and remove the engine switch key.
4. Loosen the bolts and adjust the skid height to the road surface condition.
5. After adjustment, tighten the bolts securely.



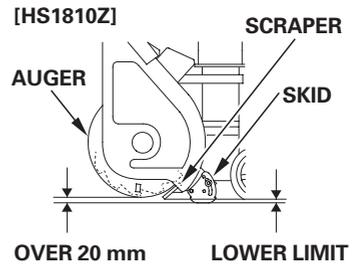
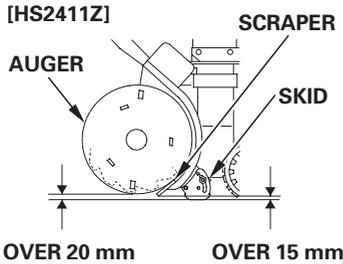
When adjusting a skid and scraper

- When the auger contacts the road surface
- When operating on a gravelly road

Fix the skid with the auger held at a position above 20 mm from the ground.

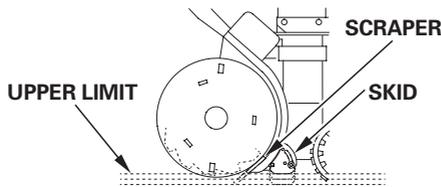
For HS2411Z models; fix the scraper at a position above 15 mm from the ground.

For HS1810Z models; fix the scraper at the lowest limit of the skid.



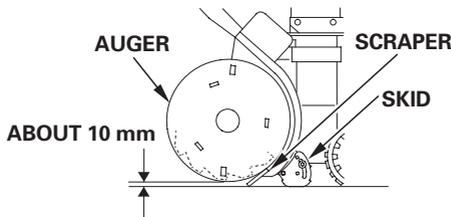
- When cleaning hard snow that has fallen from a roof
- When the snowblower does not cut into and rides up on hard lingering snow

Lift the skid and scraper to the upper limit and fix them there.



- (HS2411Z models only) When you want to clean up remaining snow left over after clearing

With the auger raised up 10 mm from the road surface, fix the skid and scraper touching the road surface.



Factory pre-set clearance:

At the scraper: 10 – 15 mm (0.4 – 0.6 in)

At the auger: 15 – 20 mm (0.6 – 0.8 in)

For use on uneven surfaces, lower the skid up to the limit to obtain the maximum scraper ground clearance.

NOTE:

- Adjust the skid equally on both sides.
- Be sure to tighten the skid and scraper bolts securely after making adjustment.

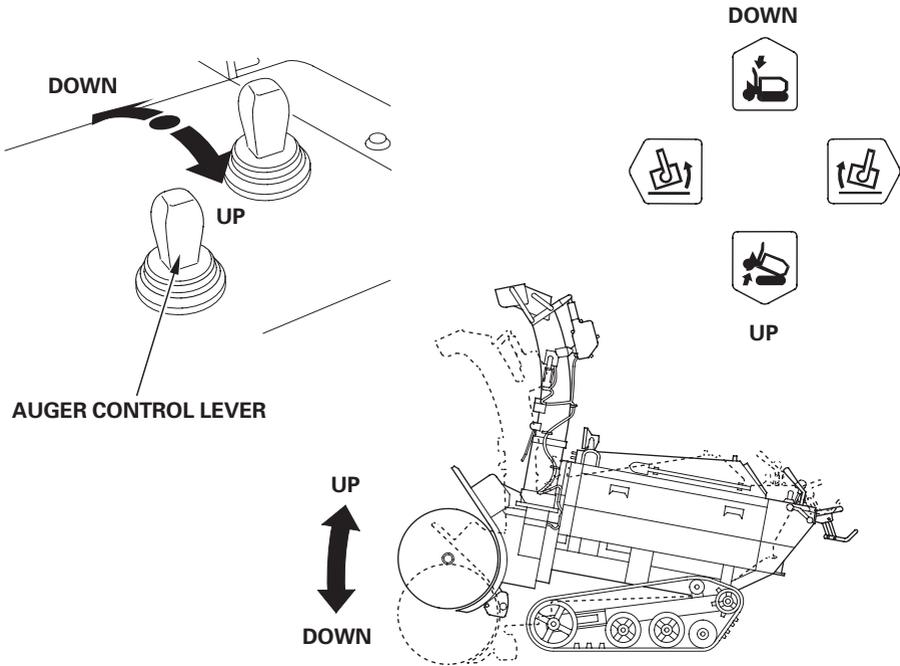
CAUTION:

Do not use the snowblower on rough or uneven surfaces with the auger ground clearance set for hard snow or surfaces. This may cause serious damage to the snow blowing mechanism.

Auger height

The auger height can be adjusted by operating the auger control lever. Determine whether the auger is set on the ground, or dug into the snow or whether it is raised off the ground slightly according to the road surface condition, and adjust the auger height with the auger control lever.

Moving the auger control lever toward “DOWN” lowers the auger. Moving the auger control lever toward “UP” raises the auger. The auger stops in the position when the auger control lever is released.



CAUTION:

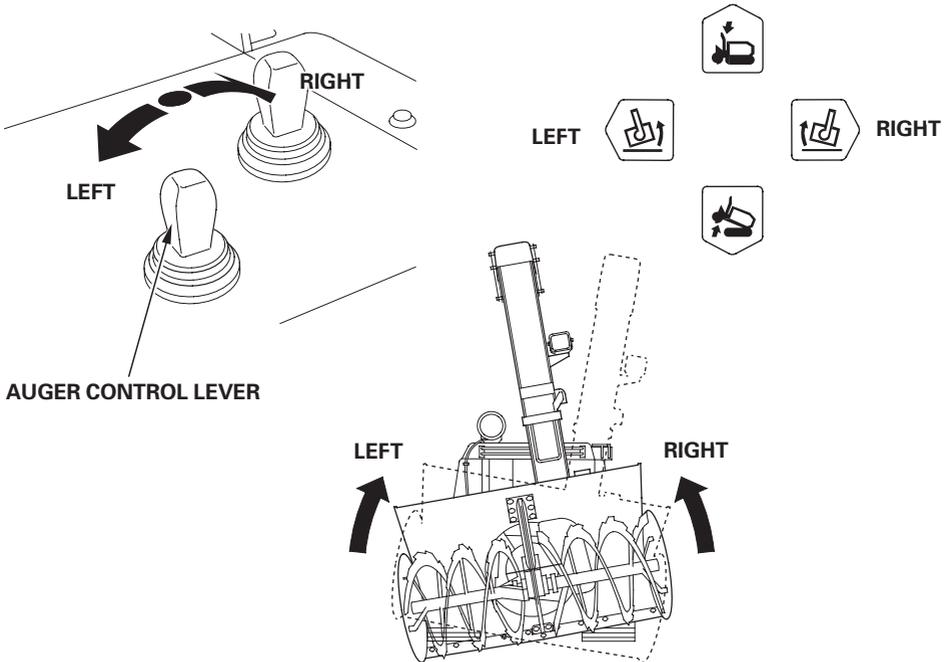
- The control motor overheats, which can cause malfunction of the protector circuit and motor, and make the auger housing unadjustable.
- Stop operating the auger control lever when the auger housing reaches the upper end or lower end position. Do not hold the auger control lever operated.
- The auger moves from the upper end position to the lower end position in approximately 5 seconds.

Auger angle

When the auger is tilted during the snow removal, adjust the tilt angle by operating the auger control lever.

When the auger is tilted toward the right: Move the auger control lever toward left.

When the auger is tilted toward the left: Move the auger control lever toward right.



CAUTION:

- The control motor overheats, which can cause malfunction of the protector circuit and motor, and make the auger housing unadjustable.
- Stop operating the auger control lever when the auger housing reaches the upper end or lower end position. Do not hold the auger control lever operated.

Snow discharge angle and direction

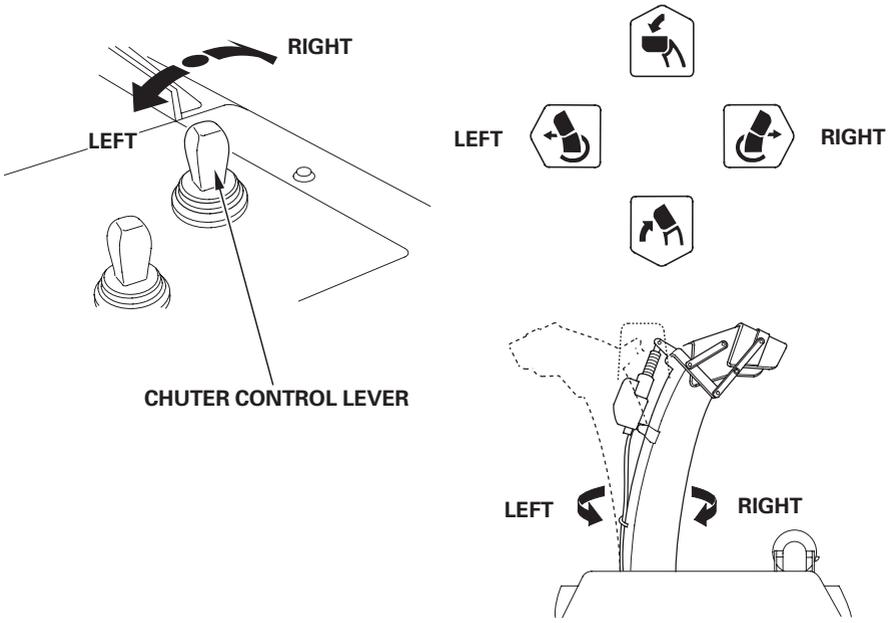
The snow discharge direction and angle can be adjusted steplessly by operating the chuter control lever.

Adjust the snow discharge direction:

Moving the chuter control lever toward "RIGHT", turns the chuter to the right.

Moving the chuter control lever toward "LEFT", turns the chuter to the left.

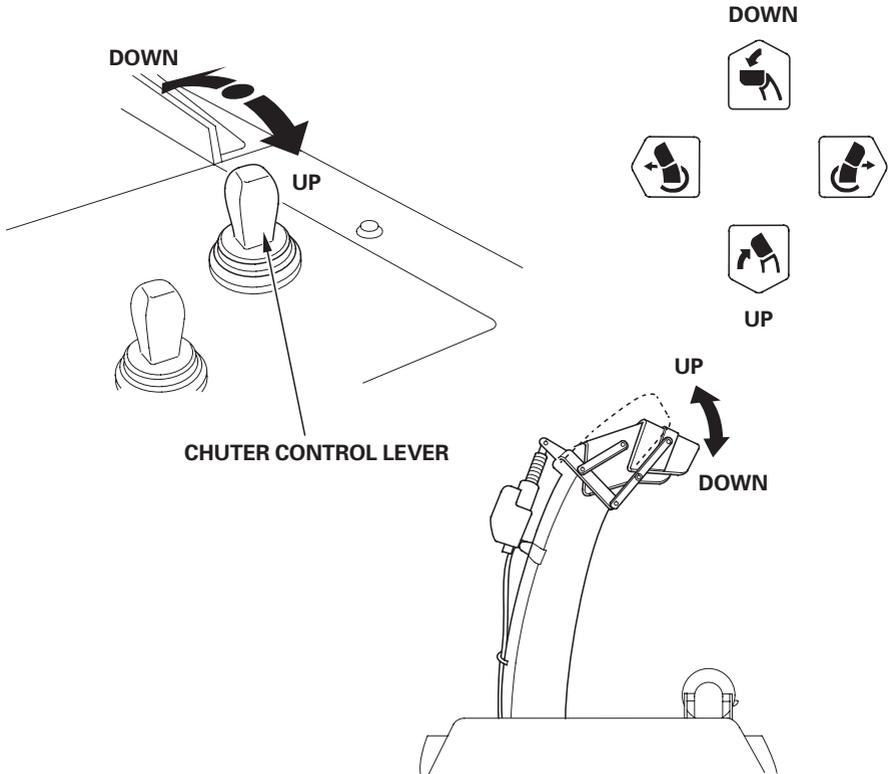
The chuter stops in the position when the lever is released.



Adjust the snow discharge angle:

Moving the chuter control lever toward "DOWN", lowers the chuter guide.

Moving the chuter control lever toward "UP", raises the chuter guide. The chuter and chuter guide stops in the position when the lever is released.

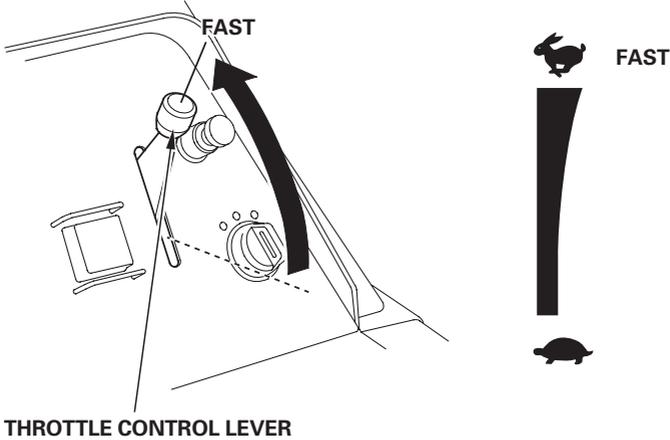


CAUTION:

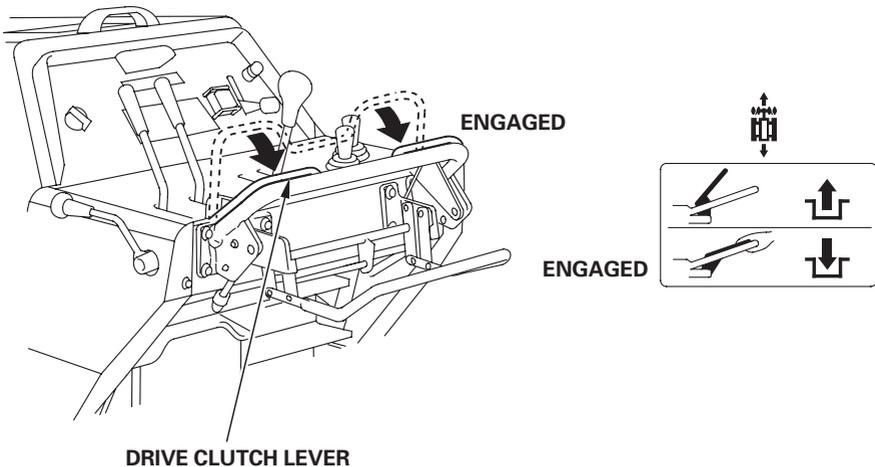
- Adjust the snow discharge angle and direction with care not to hit bystanders, windows, and others with thrown snow.
- Do not hold the chuter control lever operated. The motor overheats and the protection system functions preventing the chuter from moving. Release the chuter control lever once and wait for a while before operating the chuter control lever again.
- Do not operate the control lever toward "RIGHT" and "LEFT" while the engine hood is opened. It may cause the chute and/or wire harness to interfere with the front end of the engine hood.

Operation

1. Start the engine (see page 47 through 52).
2. Move the throttle control lever to the "FAST" position.



3. Adjust the auger height with the auger control lever according to your snow removal conditions (see pages 57 and 58).
4. Adjust the snow discharge angle and direction with the chuter control lever.
5. Squeeze the drive clutch lever.
Before squeezing the lever, make sure the shift lever is in the "NEUTRAL" position.

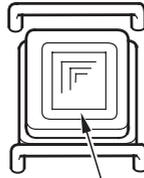
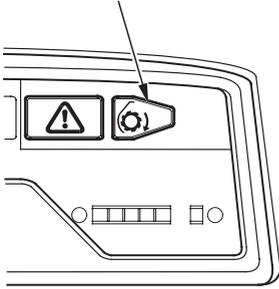


6. Push the auger clutch switch.

Make sure that the auger clutch switch light come ON and auger starts turning.

The auger clutch comes ON when the auger clutch switch is pushed with the drive clutch ON (i.e. drive clutch lever being squeezed).

AUGER CLUTCH ON INDICATOR



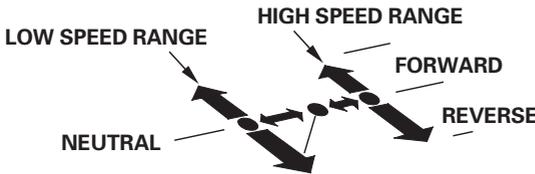
AUGER CLUTCH SWITCH



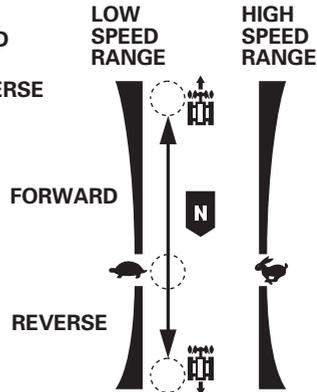
CLUTCH ON



7. Operate the shift lever to the appropriate positions in accordance with the snow condition.



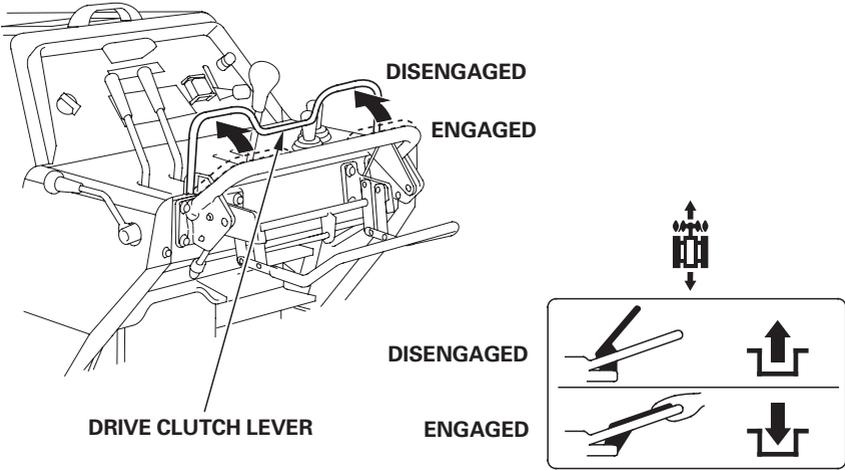
SHIFT LEVER



CAUTION:

Always ensure the area in front of and behind the snowblower is clear of people, pets and obstructions before squeezing the drive clutch lever and auger clutch switch.

8. Release the drive clutch lever to stop clearing snow and snowblower. The auger clutch switch turns "OFF" when the drive clutch lever is released with the auger clutch ON. To restart clearing of the snow, turn the auger clutch switch "ON" again.

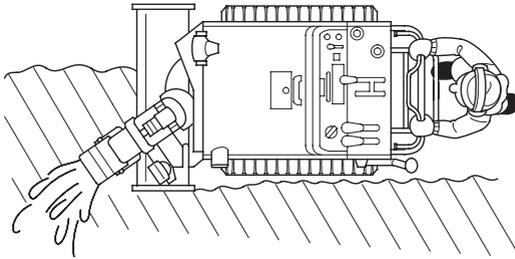


Clearing snow

For the best efficiency, clear snow before it melts, freezes and hardens. Select appropriate speed with the shift lever, and do not reduce engine speed while throwing snow. Observe the following if the engine speed is reduced with the shift lever in the "LOW SPEED" range.

Clearing in narrow width

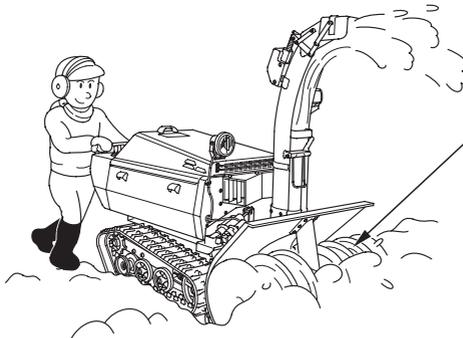
Clear snow in LOW and in narrow width by using part of the snow blowing mechanism when the snow is deep or hard.



Intermittent clearing

Follow the steps below when the engine lugs against deep or heavy snow.

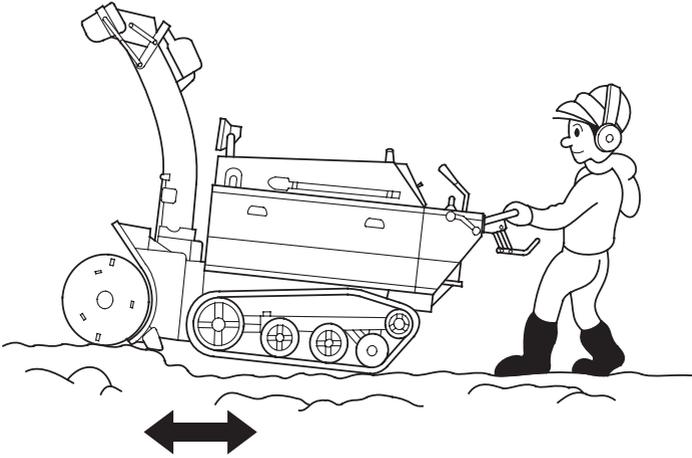
1. Release the drive clutch lever and wait until the auger is clear of snow and the engine picks up speed with the auger clutch lever squeezed and the shift lever in the "LOW SPEED" range.
2. When the engine picks up speed, squeeze the drive clutch lever.
3. Repeat the above steps if engine speed is still reduced.



Wait until the auger is clear of snow.

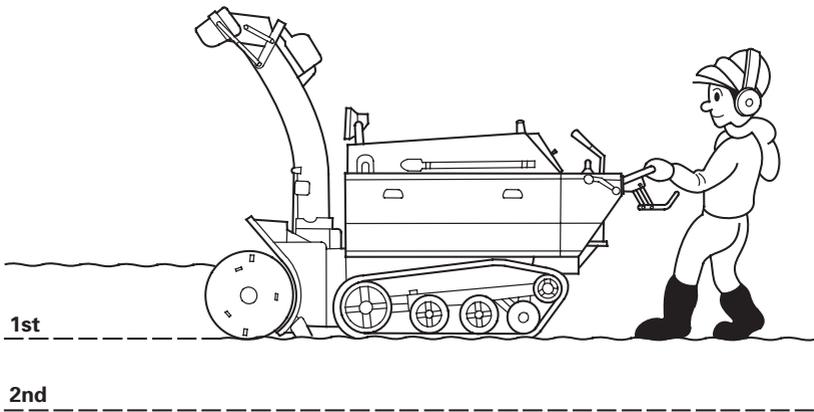
Clearing with back and forth motions

If the snow is so hard that the snowblower tends to ride over the surface, push it back and forth to remove snow gradually.



Clearing in steps

If the height of the snow is greater than the height of the snow blowing mechanism, remove it in several steps as shown.



▲ WARNING

- Adjust the snow discharge chute to avoid hitting the operator, bystanders, windows, and other objects with thrown snow. Stay clear of the snow discharge chute while the engine is running.
- If the snow discharge chute becomes clogged, stop the engine and use a snow drop bar or a wooden stick to unclog it.
Never put your hand into the snow discharge chute while the engine is running; serious personal injury could result.
- To move from one place to another, or to change direction, use the drive clutch lever. Using the auger clutch switch will cause the snowblowing mechanism to rotate, possibly resulting in equipment damage or personal injury.

CAUTION:

Be sure to set the shift lever in the “LOW SPEED” range when removing the snow.

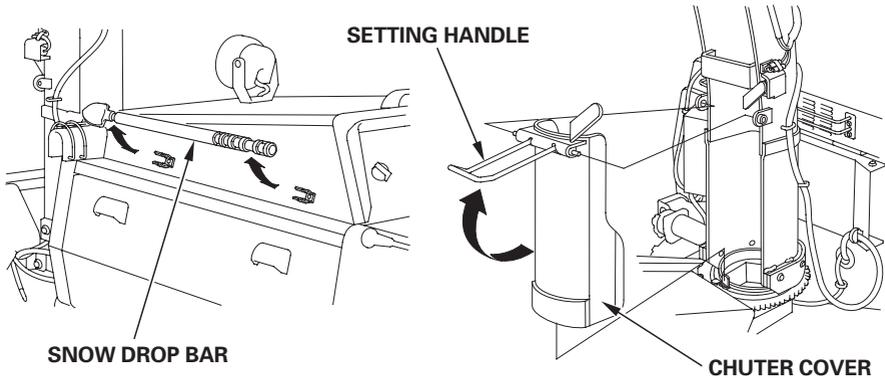
Operating the snowblower with the shift lever in the “HIGH SPEED” range will increase to the temperature of the HST (hydrostatic transmission), resulting in damage to it.

Removal of snow clogged in the chuter

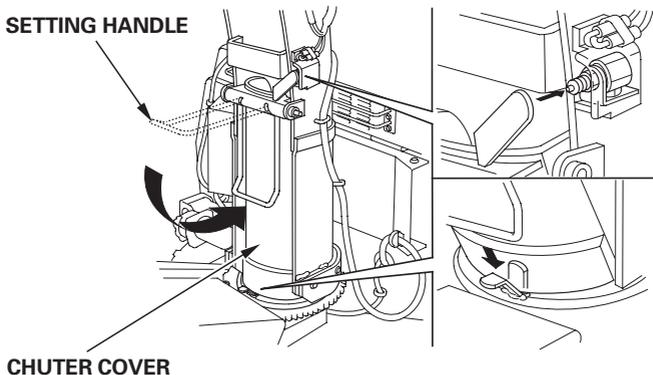
▲WARNING

Before removing clogged snow, be sure to stop the engine, and make sure that all rotating parts have come to a complete stop. Remove the spark plug cap from the spark plug.

1. Remove the chuter cover by pulling up the setting handle of the chuter cover.
2. Remove the snow using the snow drop bar.



3. After unclogging the snow, set the chuter cover securely.



NOTE:

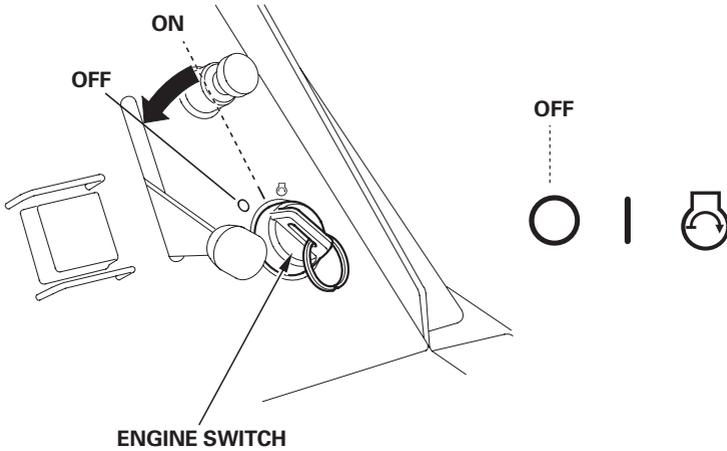
The chuter cover indicator (orange) will come ON and the engine does not start unless the chuter cover is set properly.

4. Wipe the snow drop bar clean, and store it in the holders.

8. STOPPING THE ENGINE

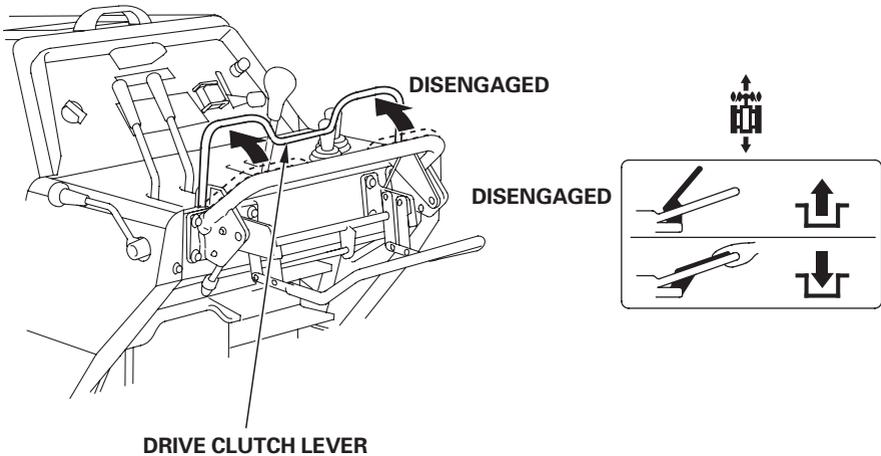
Emergency engine stopping

1. Release the drive clutch lever.
2. Turn the engine switch to the "OFF" position.
Be sure to move the shift lever to the "NEUTRAL" positions before restarting the engine.

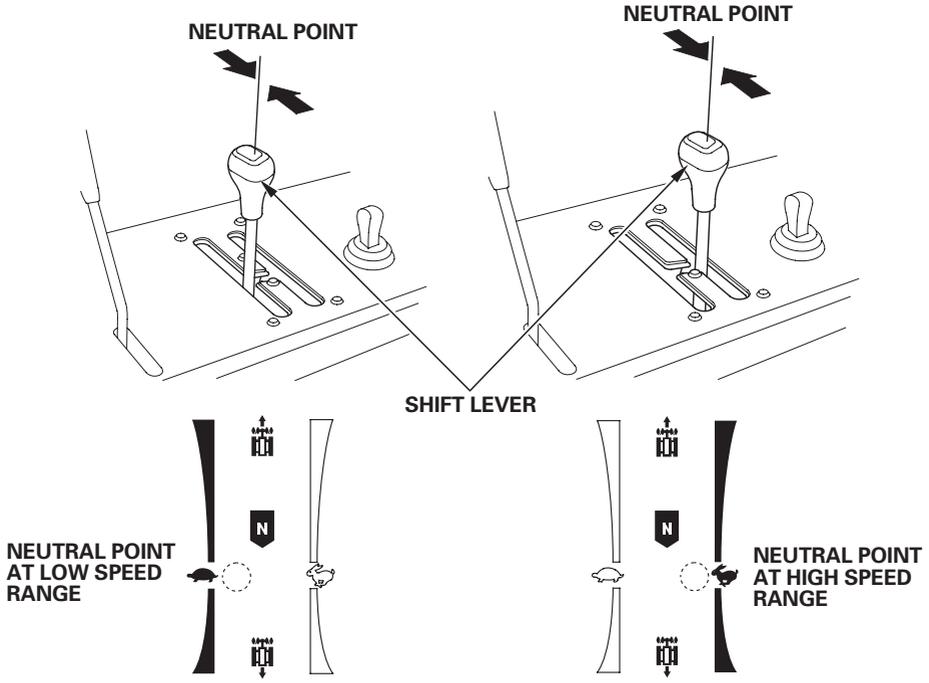


Normal engine stopping

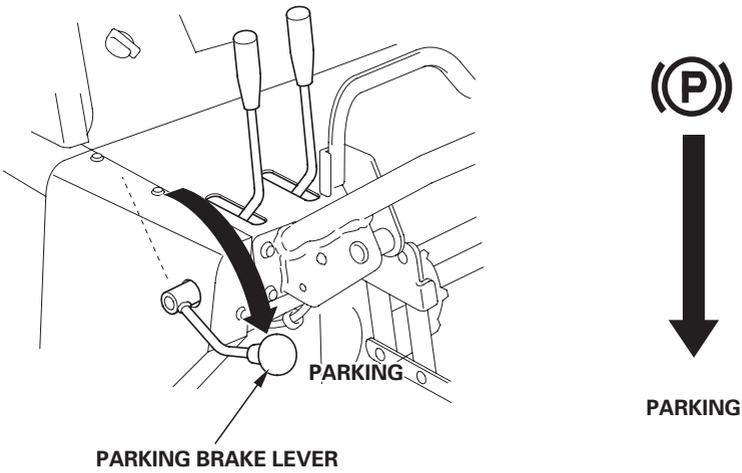
1. Release the drive clutch lever.



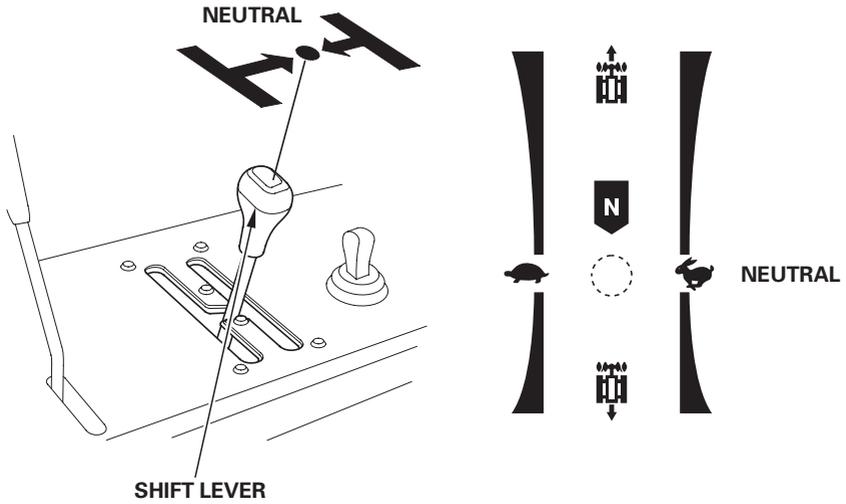
2. Set the shift lever in the "NEUTRAL" point.



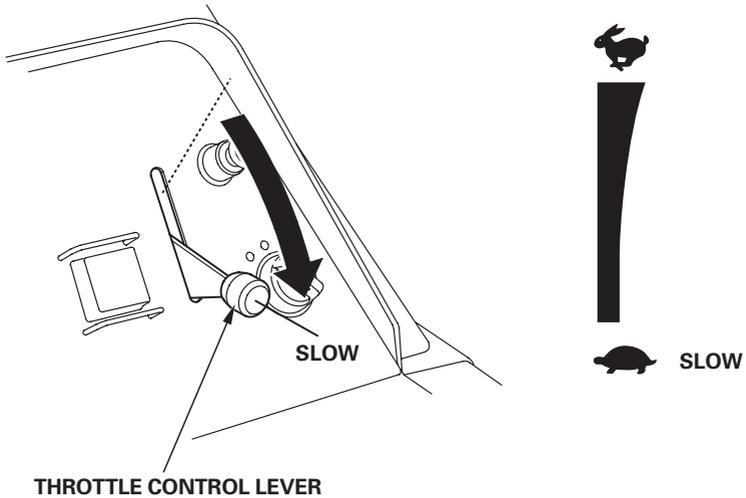
3. Set the parking brake lever in the "PARKING" position.



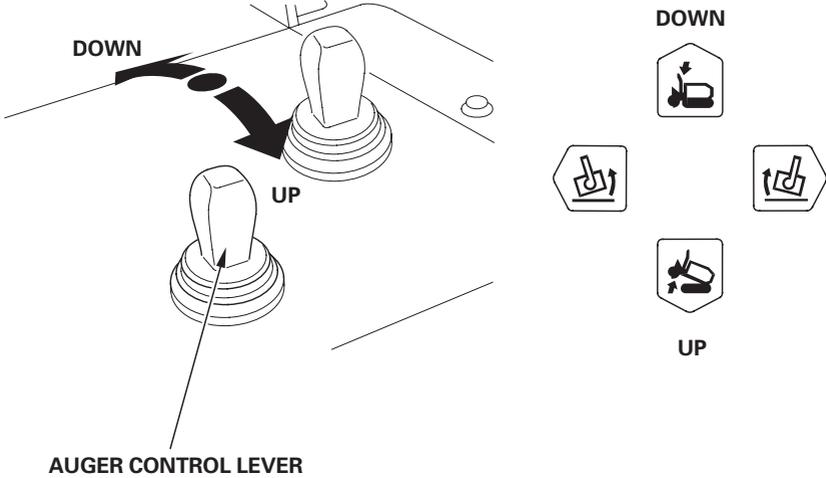
4. Set the shift lever in the "NEUTRAL" position.



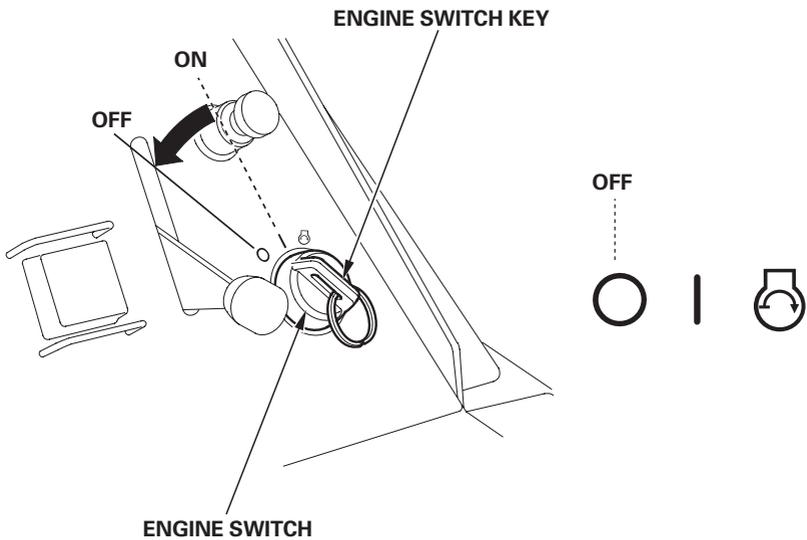
5. Move the throttle control lever to the "SLOW" position.



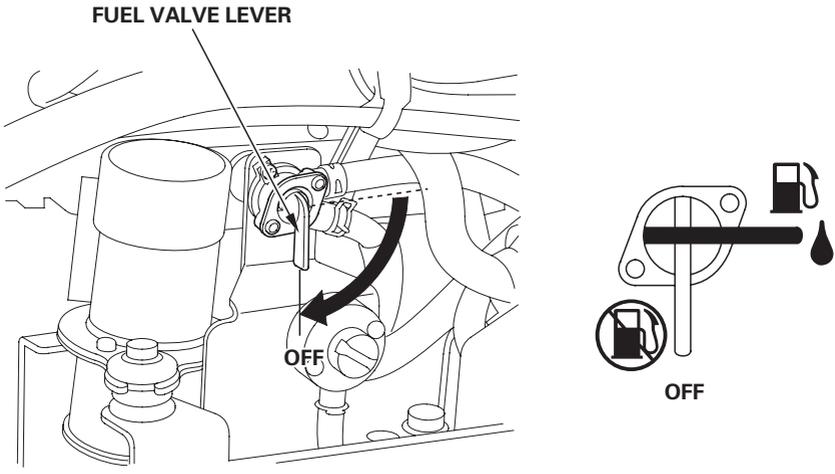
6. Operate the auger control lever until the snow blowing mechanism is rested on the ground firmly.



7. Turn the engine switch to the "OFF" position and remove the key.



8. When the snowblower will not be operated for a prolonged period, remove the left side cover (see page 34 or 35) and turn the fuel valve lever to the "OFF" position.



▲ WARNING

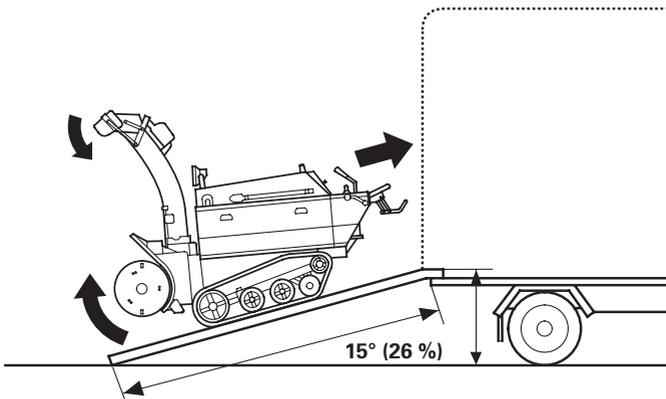
Spilled fuel may ignite. To avoid fuel and oil spillage, keep the snowblower level when transporting.

Loading the snowblower on a trailer should be performed on a firm, level surface.

1. Use a loading ramp that is strong enough to support the combined weight of the snowblower, its attachments and the operator. The loading ramp must be long enough so that its slope is 15° (26 %) or less.
2. Check the fuel gauge. When the fuel gauge needle enters the E range, stop the engine.
3. Start the engine and raise the auger fully by operating the auger control lever. And lower the chute guide fully by operating the chuter control lever.
4. Set the shift lever in the "LOW SPEED" range, and back the snowblower up the loading ramp at low speed.

CAUTION:

- Do not operate the side clutch lever while backing the snowblower up the loading ramp; serious personal injury or damage to the snowblower could result.
- Avoid stopping the snowblower on the loading ramp. Should the engine stop, be sure to move the shift lever back to the "NEUTRAL" position before attempting to restart the engine.
- Never leave the shift lever in the "NEUTRAL" position while loading, the snowblower may start suddenly, resulting in serious injury or accident.



10. MAINTENANCE

Periodic inspection and maintenance will help extend the service life of your snowblower while keeping it in the best operating condition. Inspect or service as described in the table on next page.

▲WARNING

- **Shut off the engine before performing inspection and maintenance, and disconnect the spark plug cap from the plug so the engine cannot be started.**
- **If the engine must be run, make sure the area is well-ventilated. Exhaust gas contains poisonous carbon monoxide; exposure can cause loss of consciousness and may lead to death.**

CAUTION:

- **To avoid overturning, place the snowblower on a level surface before performing inspection and maintenance.**
- **Use only genuine Honda parts or their equivalent. Replacement parts which are not of equivalent quality may damage the snowblower.**

Maintenance schedule

REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first.		Each use	First month or 20 hrs.	Every year		Every 4 years
				Before operation	Before storage	
Item						
Engine oil	Check level Change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> (Every 100 hrs.)		
Engine oil filter	Replace		Every year or every 100 hrs. (2)			
Air cleaner	Check-clean Replace			<input type="radio"/> (1)		
			Every year or every 300 hrs. (2)			
HST oil	Check level	<input type="radio"/>				
Transmission oil	Change		Every 2 years (2)			
Auger transmission oil	Change		Every 2 years or 200hrs. (2)			
Battery electrolyte (If applicable)	Check level Check level and gravity	<input type="radio"/>		<input type="radio"/> (1) (2)		
Spark plug	Check-adjust Replace			<input type="radio"/> (1)		<input type="radio"/> (Every 250 hrs.)
Auger skid shoes and scraper	Check-adjust	<input type="radio"/>		<input type="radio"/> (1)		
Track	Check-adjust			<input type="radio"/> (1)		
Auger and blower lock bolt	Check	<input type="radio"/>				
Bolts, Nuts, Fasteners	Check	<input type="radio"/>				
Fuel strainer (2 locations)	Check Replace				<input type="radio"/>	
			Every 2 years or 400 hrs. (2)			
Fuel tank and carburetor	Drain				<input type="radio"/>	
Anti corrosion oil	Apply oil				<input type="radio"/>	
Back stop system	Check-adjust	<input type="radio"/>		<input type="radio"/> (1) (2)		
Auger clutch switch	Check-adjust	<input type="radio"/>	<input type="radio"/> (1) (2)	<input type="radio"/> (1) (2)		
Drive clutch lever	Check-adjust	<input type="radio"/>	<input type="radio"/> (1) (2)	<input type="radio"/> (1) (2)		
Throttle, Choke cable	Check-adjust			<input type="radio"/> (1) (2)		
Side clutch cable	Check-adjust			<input type="radio"/> (1) (2)		
Drive, Auger belt	Check-adjust			<input type="radio"/> (1) (2) (4)		
Idle speed	Check-adjust			<input type="radio"/> (2)		
Valve Clearance	Check-adjust			<input type="radio"/> (2)		
Combustion chamber	Clean		After every 250 hrs. (2)			
Fuel tank and filter	Clean					<input type="radio"/> (2)
Fuel tube	Check					<input type="radio"/> (2)

(1)These parts may require more frequent inspection and replacement under heavy use.

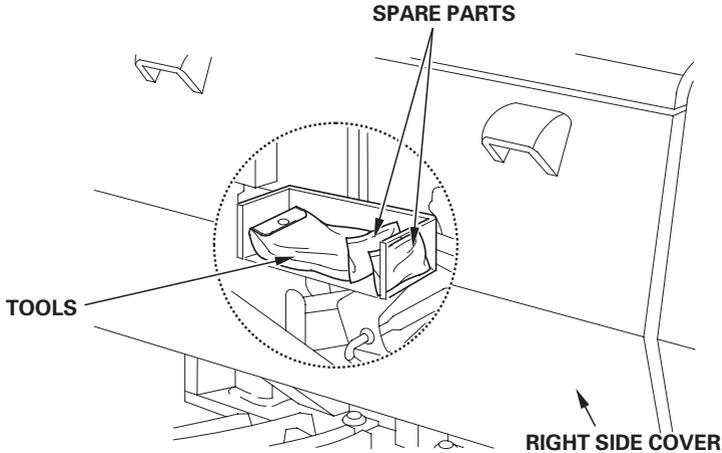
(2)These items should be serviced by your servicing dealer.

(3)For professional commercial use, log hours of operation to determine proper maintenance intervals.

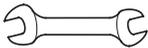
(4)Check the belt for wear or damage. Replace the belt with a new one if it is worn or damaged.

Tools and spare parts

The tools and spare parts are stored at the back of the right side cover for inspection and service of the snowblower. Keep these tools and spare parts on the snowblower.



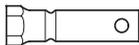
TOOL BAG



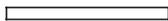
12 × 17 mm WRENCH (2)



10 × 14 mm WRENCH



SPARK PLUG WRENCH



PLUG WRENCH HANDLE



FUSE 3 A, 10 A



FUSE 30 A (2)



ENGINE HANGER

SPARE LOCK BOLT, NUT and WASHER



**10 × 25 mm
HEX. BOLT (10)**



**8 × 25 mm
HEX. BOLT (10)**



**10 mm SPRING
WASHER (10)**



**8 mm SPRING
WASHER (10)**



**10 mm
HEX NUT (10)**



**8 mm
HEX NUT (10)**

Engine oil change

If the engine oil is dirty, engine wear will occur more rapidly. Change the oil at designated intervals. Maintain the oil at the proper level.

ENGINE OIL CAPACITY:

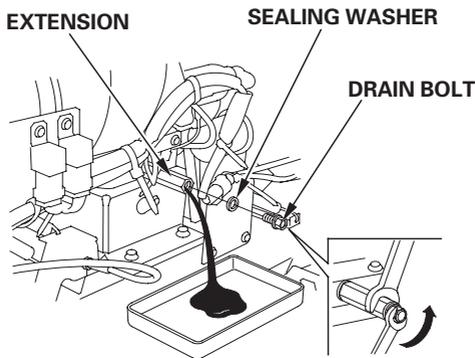
Without oil filter replacement: 1.1 L (1.2 US qt, 1.0 Imp qt)

With oil filter replacement: 1.4 L (1.5 US qt, 1.2 Imp qt)

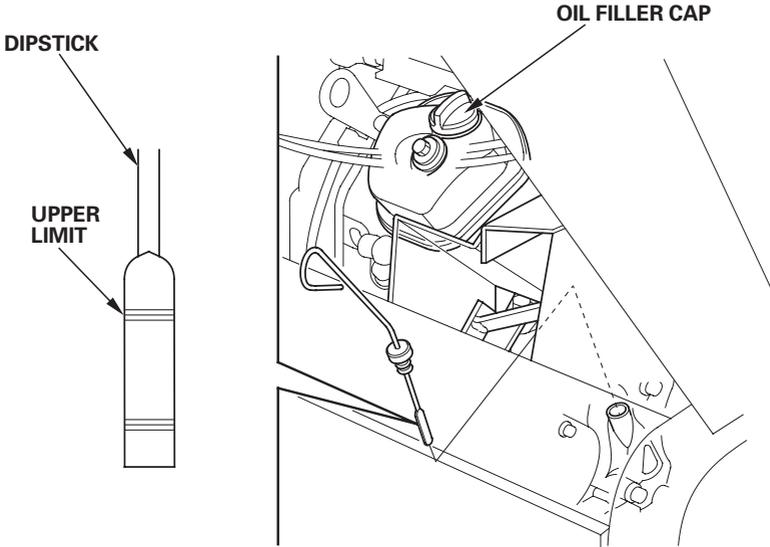
CAUTION:

If you drain the oil immediately after stopping the engine, its temperature will be high and may cause burns.

1. Place the snowblower on level surface, and raise the auger by operating the auger control lever (see page 24).
2. Remove the left side cover and open the engine hood (see page 32 – 35).
3. Remove the oil filler cap.
4. Hold the extension pipe with a wrench and remove the drain bolt and sealing washer. Drain the oil while the engine is still warm, to assure rapid and complete draining. Discard the sealing washer, do not reuse the sealing washer. Replace the sealing washer with new one.
5. Install the new sealing washer and drain bolts, and hold the extension pipe and tighten the drain bolt securely.



-
6. Fill the new oil up to the upper limit (see page 40).
 7. After changing the oil, install the oil filler cap securely. Install the left side cover (see page 34 or 35) and close the engine hood (see page 32 or 33).



Wash your hands with soap and water after handling used oil.

NOTE:

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for recycling. Do not throw into a wastebin or pour it onto the ground.

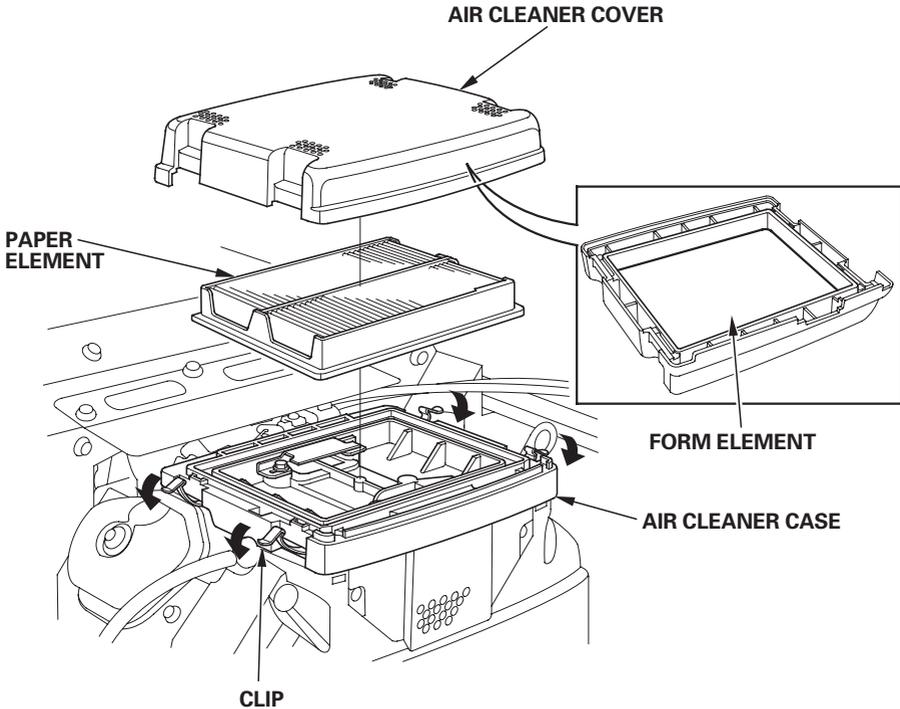
Air cleaner

A dirty air filter will restrict air flow to the carburetor, reducing engine performance.

Check the air filter before operation at every year.

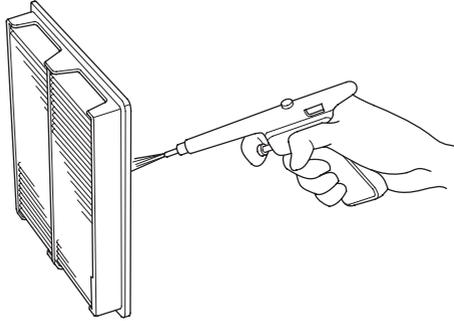
The paper filter element must be replaced every year or 300 hours.

1. Place the snowblower on level surface and open the engine hood (see page 32 or 33).
2. Pull off the cover clips and remove the air cleaner cover.
3. Inspect both air filter elements. If they are dirty, clean them.
Replace them if they are damaged. Always replace the paper filter element at the scheduled interval (see page 75).
4. Reinstall the air cleaner cover, and set the cover clips securely.

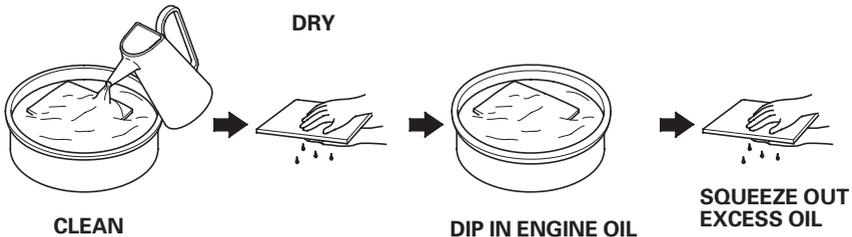


Air cleaner cleaning

1. Remove the air cleaner cover.
2. Remove the paper filter element from the air cleaner case.
Tap the paper filter element several times on a hard surface to remove dirt, or blow low compressed air through the filter element from the inside.
Never try to brush off dirt: brushing will force dirt into the fibers.



3. Remove the foam filter element from the air cleaner cover.
Clean in warm soapy water, rinse and allow drying thoroughly. Or clean it in non-flammable solvent and allow drying.
Dip the filter element in clean engine oil, and then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam element.



4. Wipe dirt from the inside of the air cleaner case and cover.
5. Reinstall elements in the reverse order of removal.
6. Close the engine hood (see page 32 or 33).

Spark plug

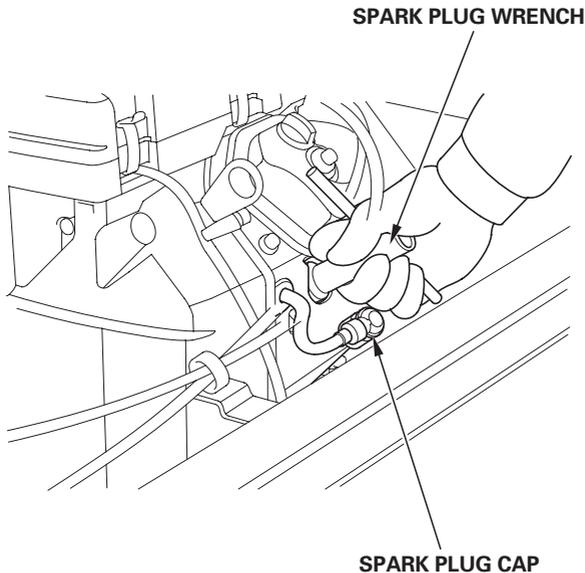
The spark plug must be periodically cleaned and adjusted to provide reliable ignition.

▲WARNING

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler while it is hot.

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

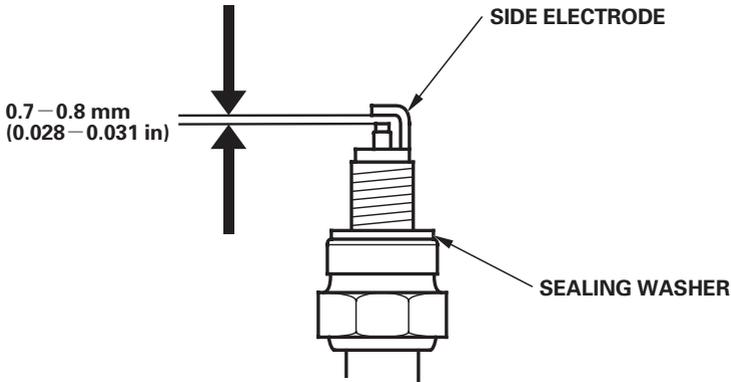
1. Place the snowblower on level surface and open the engine hood (see page 32 or 33).
2. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.
3. Remove the spark plug with a spark plug wrench.



4. Visually inspect the spark plug. Discard it if insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.

-
5. Measure the plug gap with a feeler gauge.
Correct as necessary by carefully bending the side electrode.
The gap should be:
0.7–0.8 mm (0.028–0.031 in)

Recommended spark plug: ZGR5A (NGK)
J16CR-U (DENSO)



6. Make sure that the sealing washer is in good condition and thread the spark plug in by hand to prevent cross-threading.
7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

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 to 1/4 turn after the spark plug seats.

CAUTION:

- Use only the recommended spark plug or equivalent. Spark plug which has an improper heat range may cause engine damage.
- The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.

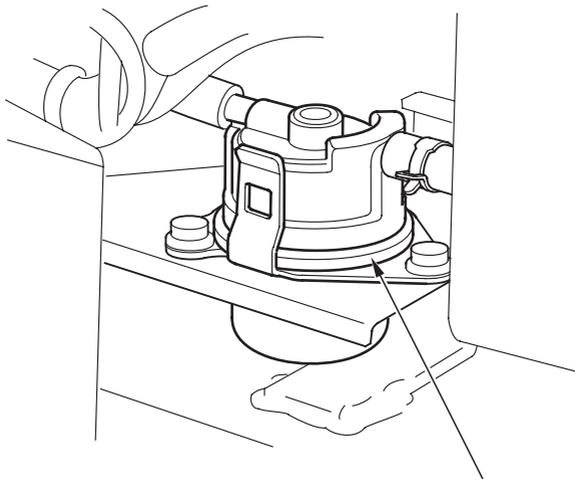
Fuel strainers

The primary fuel strainer is mounted between the fuel tank and fuel pump, and secondary fuel strainer is mounted between the fuel pump and carburetor.

Water in the fuel strainer or clogged fuel strainer can cause lack of engine power or poor start up of the engine. Inspect the fuel strainer at every end of the season.

Primary fuel strainer inspection

1. Remove the left side cover (see page 34 or 35).
2. Check the primary fuel strainer. If there is water, sediment or any foreign material in the fuel strainer, take the snowblower to an authorized Honda dealer.

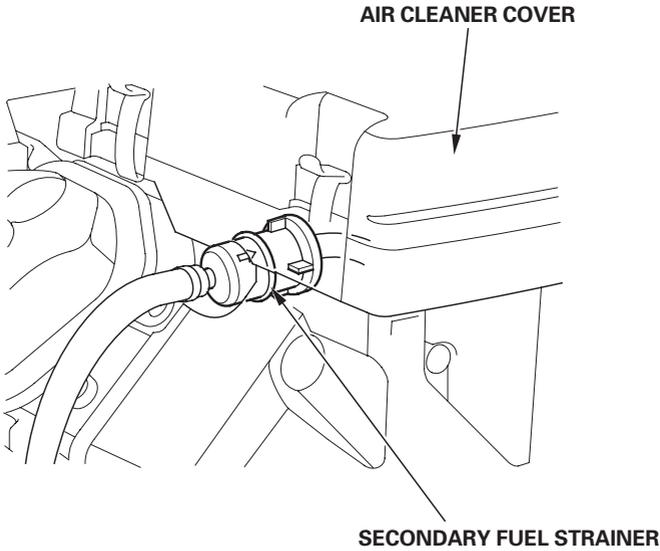


PRIMARY FUEL STRAINER

3. Reinstall the left side cover (see page 34 or 35).

Secondary fuel strainer inspection

1. Open the engine hood (see page 32 or 33).
2. Check the secondary fuel strainer. If there is water, sediment or any foreign material in the fuel strainer, take the snowblower to an authorized Honda dealer.



3. Close the engine hood (see page 32 or 33).

Battery

Loose or corroded battery terminals can cause poor contact of the battery terminals. Tighten the battery terminals securely if they are loose.

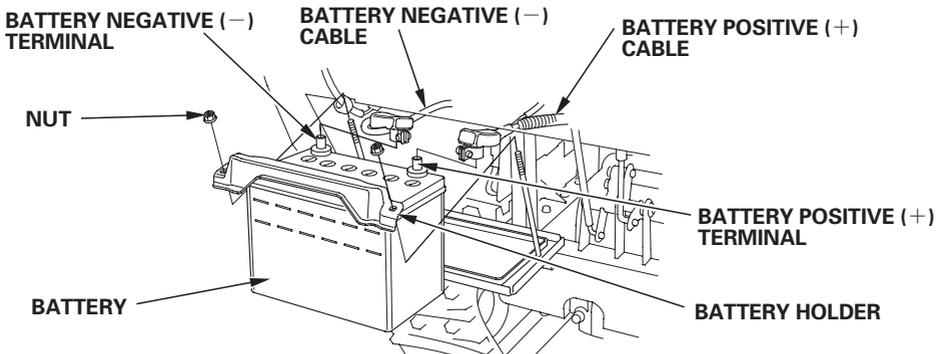
If the battery terminals are contaminated or corroded, remove the battery and clean the terminals.

▲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 clothing, 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.**

Battery removal:

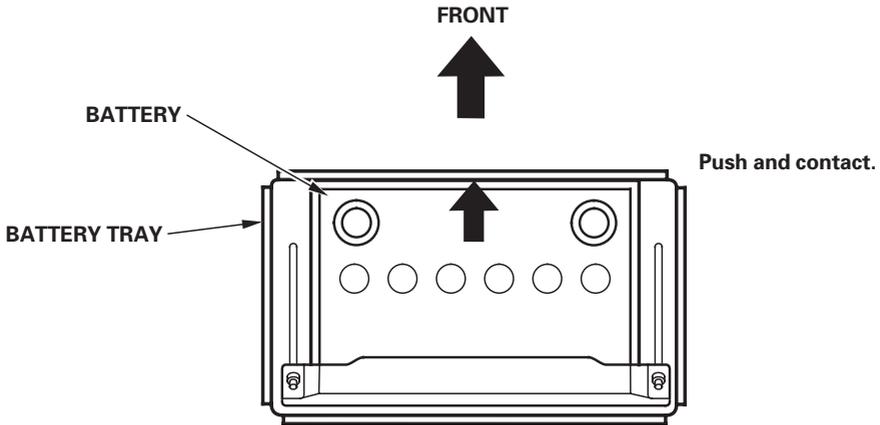
1. Disconnect the battery negative (–) cable from the battery negative (–) terminal first, then disconnect the battery positive (+) cable.
2. Loosen the nuts, and pull off the battery holder from the battery.



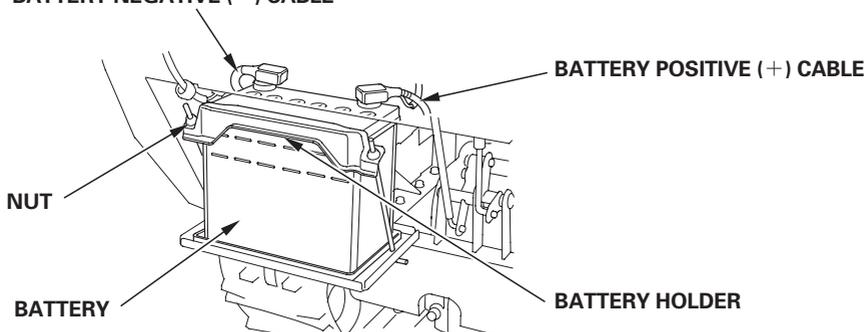
-
3. Remove the battery and clean the battery terminals and battery cable terminals with a wire brush or sand paper.
Clean the battery with a solution of baking soda and warm water with care not to get the solution or water in the battery cells. Dry the battery thoroughly.

Battery installation:

1. Secure the battery by pushing it against the front end of the battery tray.
2. Connect the battery positive (+) cable to the battery positive (+) terminal first, then the battery negative (-) cable. Tighten the terminal bolts and nut securely.
3. Set the battery set plate and tighten the nuts.



BATTERY NEGATIVE (–) CABLE



CAUTION:

When disconnecting the battery cable, be sure to disconnect at the battery negative (–) terminal first. To connect, connect at the battery positive (+) terminal first, then at the battery negative (–) terminal. Never disconnect the battery cable in the reverse order, or it causes a short circuit when a tool contacts the terminals.



This symbol on the battery means that this product must not be treated as household waste.

NOTE:

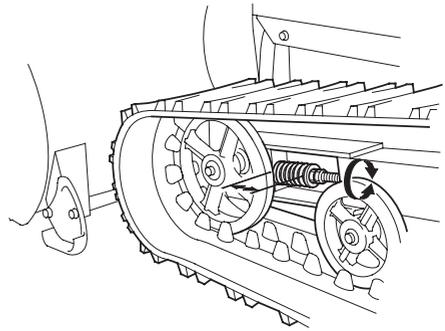
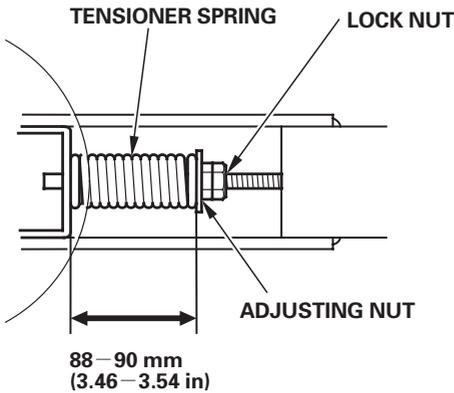
An improperly disposed of battery can be harmful to the environment and human health.

Always confirm local regulations for battery disposal.

Track

The track must be adjusted every year before operation.

1. Make sure the tracks are clean and dry before adjustment. The tracks cannot be correctly adjusted if clogged with snow or debris, or coated with ice.
2. Measure the track tensioner spring length.
Tensioner spring length: 88–90 mm (3.46–3.54 in)
3. If the spring length is not within the specification, adjust as follows.
4. Loosen the lock nut and turn the adjusting nut to obtain correct length. Both side spring lengths must be adjusted equally.
5. Hold the adjusting nut and tighten the lock nut securely.
6. After adjustment, move the snowblower forth and back and recheck. Readjust if necessary.



Auger/Blower

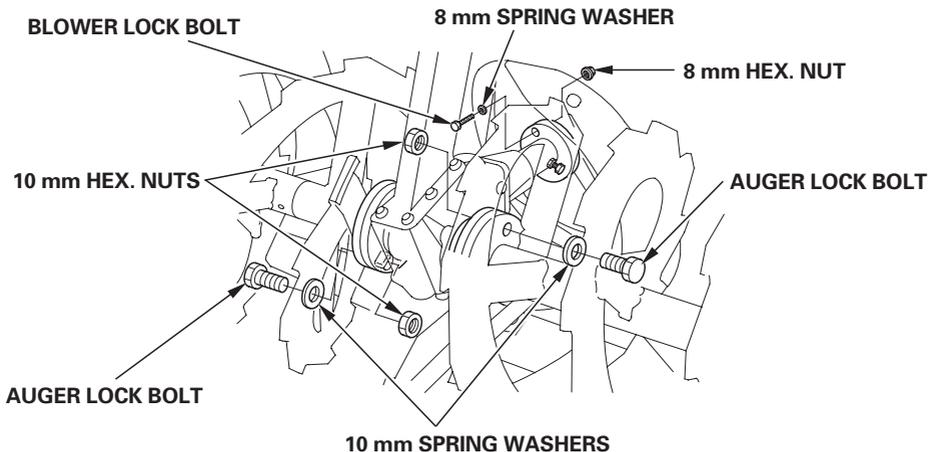
Check the auger, auger housing, blower and lock bolts for signs of damage or other faults. If any of the lock bolts is broken, replace them with the one furnished with the snowblower. Additional lock bolts and nuts are available from authorized Honda snowblower dealers.

CAUTION:

Lock bolts are designed to break under force that would otherwise damage auger and blower parts. Do not replace lock bolts with ordinary hardware bolts.

Lock bolt replacement procedure

1. Place the snowblower on the level surface with parking brake applied.
2. Make sure the auger clutch switch is in the "OFF" position, and release the drive clutch lever.
3. Lower the auger to the lowest position with the auger control lever.
4. Turn the engine switch to the "OFF" position, remove the engine switch key, and be sure that each rotating part come to a complete stop.
5. Clean the auger and blower of snow, ice or any other foreign particles.
6. Check the entire snow clearing mechanism.
7. Replace any broken lock bolts. Tighten securely.



Fuse

In the event of a burned out fuse, replace it with another fuse of the rated capacity only after investigating the cause for the failure. If the fuse is replaced without correcting the reason for the failure, the new fuse may burn out quickly again.

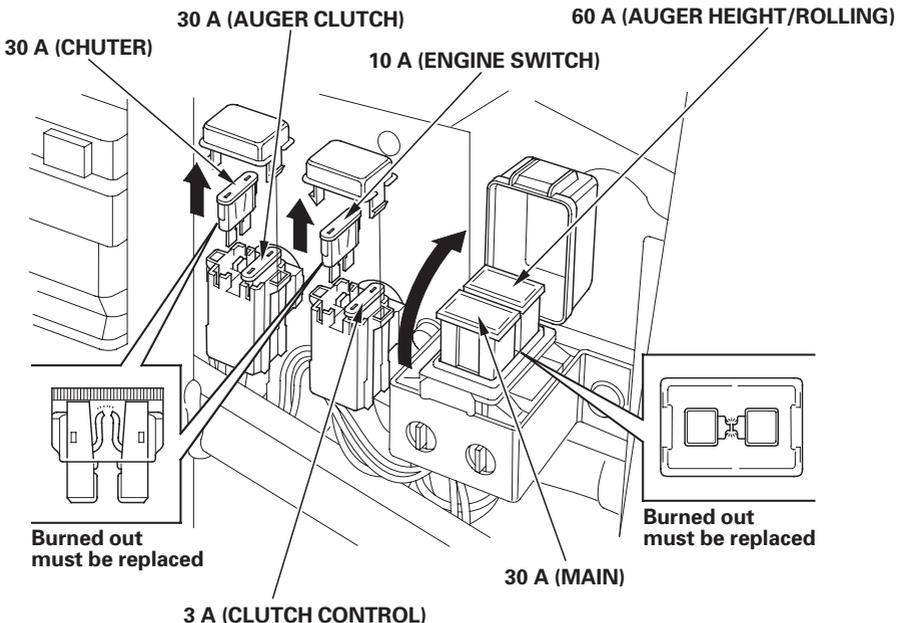
CAUTION:

Never replace a burned out fuse with any object other than another fuse of the rated capacity. Using any other object such as wire or aluminum foil may cause fires in wiring or other parts.

Block fuse replacement requires specific tools. Ask an authorized Honda dealer for replacement.

Fuse replacement (blade fuse only)

1. Remove the left side cover (see page 34 or 35).
2. Replace the blown blade fuse with a new one (3 A, 10 A or 30 A).
Additional fuses are available from an authorized Honda dealer.
Have the 30 A and 60 A block fuses checked and replaced by an authorized Honda dealer.
3. Reinstall the left side cover (see page 34 or 35).



Operation check

Perform the following checks before the initial operation of the season.

- Engine for start and stop performance.
- Control levers for operation.
- Switches for operation.
- Other moving parts for function.

11. STORAGE

Remove the engine switch key and store the snowblower in an area free of humidity, dust, and direct sunlight.

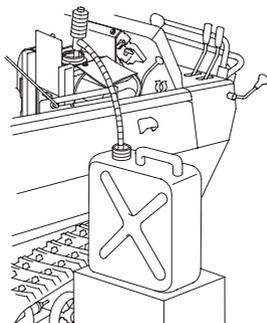
Before storing the snowblower for an extended period:

1. Drain the fuel tank and carburetor.

▲ WARNING

- Gasoline is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in the area.
- Do not drain the fuel tank when the exhaust system is hot.

a. Drain all gasoline from the fuel tank into an approved gasoline container. We recommend using a commercially available gasoline hand pump. Do not use an electric pump.



b. Remove the left side cover (see page 34 or 35).

c. Turn the fuel valve lever to the "ON" position.

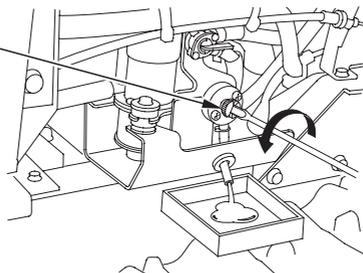
d. Loosen the carburetor drain screw and drain the gasoline into a suitable container.

e. After complete draining from the carburetor and fuel lines, tighten the drain screw securely.

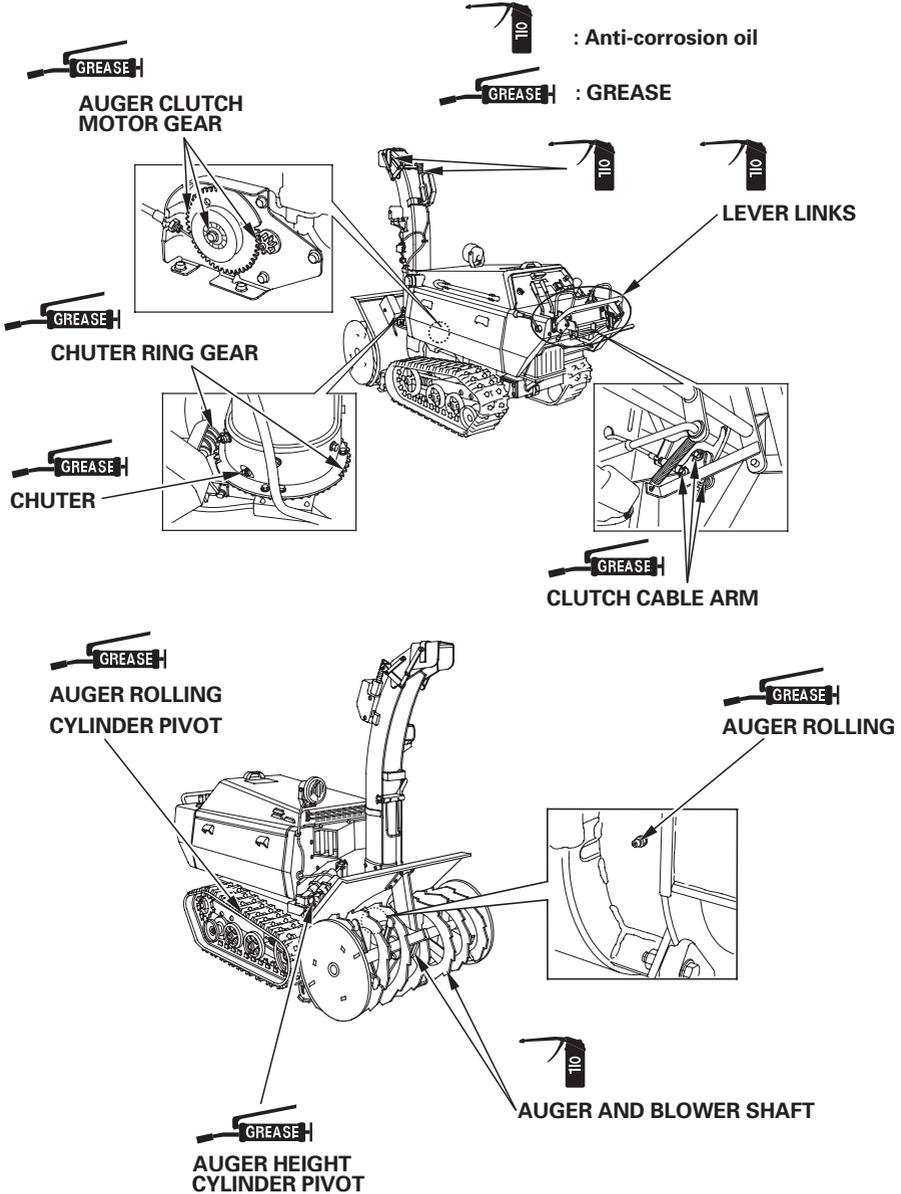
f. Turn the fuel valve lever to the "OFF" position.

g. Reinstall the left side cover (see page 34 or 35).

CARBURETOR
DRAIN SCREW



2. Remove the battery (see page 85), and store in a cool and dry place. Recharge the battery every 6 months.
3. Clean and dry the snowblower and apply anti-corrosion oil or grease to the following parts for lubrication and rust prevention.



12. TROUBLESHOOTING

When the engine will not start:

CAUTION:

Be sure to perform the following checks in a well ventilated area.

1. Is there enough fuel?
2. Is the fuel valve lever turned to the "ON" position?
3. Is gasoline reaching the carburetor?
To check, loosen the carburetor drain screw with the fuel valve lever turned to the "ON" position.
Fuel should flow freely.

▲WARNING

If any fuel is spilled, make sure the area is dry before starting the engine. Spilled fuel or fuel vapor may ignite.

4. Is there enough oil the engine?
5. Is the fuse burned out?
6. Is the battery cable connected properly?
7. Are the spark plug caps installed correctly?
8. Is the chuter cover installed correctly?
9. Check the spark plug for dirt, wet and the gap.
 - a. Clean the spark plug.
 - b. Reinstall the plug if it is reused, or replace with a new one.
10. Start the engine according to the starting procedure.

If the engine still does not start, take the snowblower to an authorized Honda dealer.

13. SPECIFICATIONS

Model	HS1810Z	HS2411Z
Description code	SZBK	SZBJ

Engine

Model	GX610	GX670
Engine Net power (in accordance with SAE J1349*)	12.4 kW (16.9 PS)/3,600 rpm	15.3 kW (20.8 PS)/3,600 rpm
Displacement	614 cm ³ (37.5 cu-in)	670 cm ³ (40.9 cu-in)
Bore × stroke	77.0 × 66.0 mm (3.03 × 2.6 in)	77.0 × 72.0 mm (3.03 × 2.8 in)
Starting method	Electric starter	
Ignition system	Transistor magneto	
Oil capacity	Without oil filter replacement: 1.1 L (1.2 US qt, 1.0 Imp qt) With oil filter replacement: 1.4 L (1.5 US qt, 1.2 Imp qt)	
Fuel tank capacity	13.3 L (3.51 US gal, 2.93 Imp gal)	22.5 L (5.94 US gal, 4.95 Imp gal)
Spark plug	ZGR5A (NGK) J16CR-U (DENSO)	
Battery	12V 47Ah/20HR	

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

NOTE:

Specifications are subject to change without notice.

Frame

Model	HS1810Z	HS2411Z
Overall length	2,320 mm (91.3 in)	2,450 mm (96.5 in)
Overall width	1,000 mm (39.4 in)	1,100 mm (43.3 in)
Overall height	1,650 mm (65.0 in)	2,070 mm (81.5 in)
Dry mass [weight]	460 kg (1,014 lbs)	565 kg (1,246 lbs)
Width of snow clearance	1,000 mm (39.4 in)	1,100 mm (43.3 in)
Height of snow clearance	670 mm (26.4 in)	740 mm (29.1 in)
Snow-throwing distance (differs according to type of snow and discharge direction)	Max. 25 m (82 ft)	

Noise and Vibration

Model	HS1810Z	HS2411Z
Sound pressure level at operator's ears (EN ISO 11200: 1995)	88 dB (A)	88 dB (A)
Uncertainty	2 dB (A)	2 dB (A)
Measured sound power level (2000/14/EC, 2005/88/EC)	102 dB (A)	102 dB (A)
Uncertainty	2 dB (A)	2 dB (A)
Guaranteed sound power level (2000/14/EC, 2005/88/EC)	104 dB (A)	104 dB (A)
Vibration level at hand arm (EN12096: 1997 Annex D, EN1033: 1995)	2.6 m/s ²	Not exceeded 2.5 m/s ²
Uncertainty	1.3 m/s ²	—————

NOTE:
Specifications are subject to change without notice.

14. WIRING DIAGRAM

CONTENTS

HS1810Z (E type) W-1 (inside back cover)
HS2411Z (E type) W-2 (inside back cover)

ABBREVIATIONS

ACFaIn	Auger Clutch Failure Indicator
ACG	AC Generator
ACISw	Auger Clutch Switch
ACMo	Auger Clutch Motor
ACOfSe	Auger Clutch Off Sensor
ACOn	Auger Clutch On Indicator
ACOfSe	Auger Clutch On Sensor
ACSsw	Auger Control Switch
ACSswCo	Auger Control Switch Continuity
BAT	Battery
CCoSw	Chuter Cover Switch
CCSw	Chuter Control Switch
CCSwCo	Chuter Control Switch Continuity
CCUn	Chuter Control Unit
CGMo	Chuter Guide Motor
ChBl	Chuter Block
ChgIn	Charging Indicator
ChIn	Chuter Indicator
ClCoUn	Clutch Control Unit
CMo	Chuter Motor
CoPaBl	Control Panel Block
CoPaLi	Control Panel Light
DrClOn	Drive Clutch On Indicator
DrClSw	Drive Clutch Switch
EgOiln	Engine Oil Indicator
EngStDi	Engine Stop Diode

EgSw	Engine Switch
EnBl	Engine Block
FCS	Fuel Cut Solenoid
FuBx1	Fuse Box 1
FuBx2	Fuse Box 2
FuGa	Fuel Gauge
FUn	Fuel Unit
FuPu	Fuel Pump
Grd (Brt)	Ground (Bracket)
Grd (Brt 1)	Ground (Bracket 1)
Grd (Brt 2)	Ground (Bracket 2)
Grd (Eg)	Ground (Engine)
Grd (Fr)	Ground (Frame)
HL	Headlight
HMo	Height Motor
HoMe	Hour Meter
InUn	Interlock Unit
LDi	Light Diode
LeHaBl	Left Harness Block
LIGCo	Left Ignition Coil
LSP	Left Spark Plug
LSw	Light Switch
LSwCo	Light Switch Continuity
MFuBx	Main Fuse Box
MoDrUn	Motor Drive Unit
OPSw	Oil Pressure Switch
PHRe	Power Height Relay
Rg	Regulator

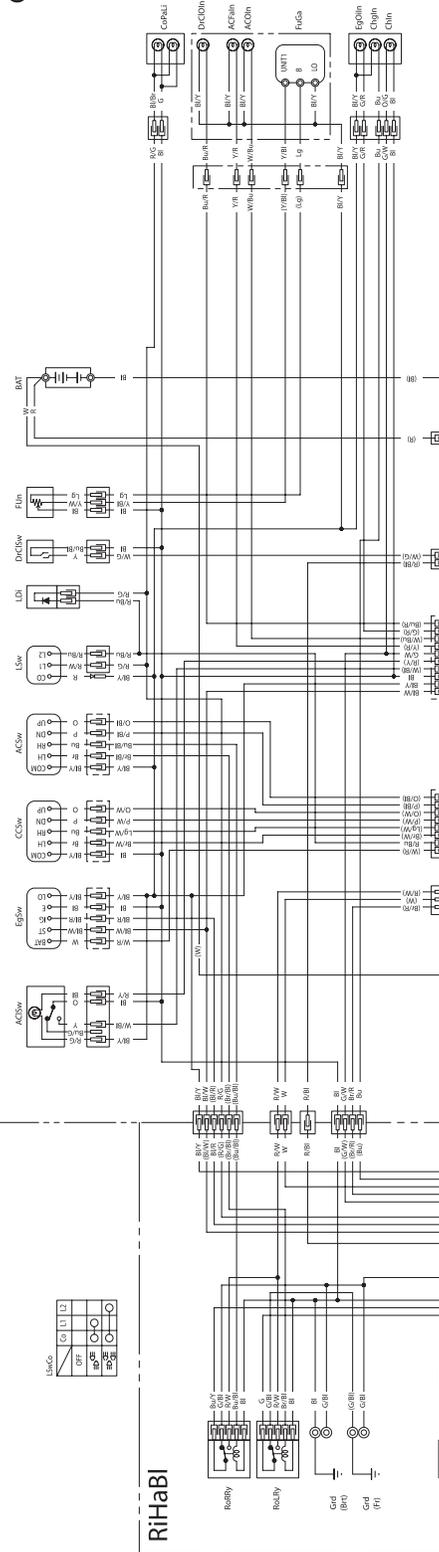
RIGCo	Right Ignition Coil
RiHaBl	Right Harness Block
RoLRy	Rolling Left Relay
RoMo	Rolling Motor
RoRRy	Rolling Right Relay
RSP	Right Spark Plug
SpUn	Spark Unit
StMo	Starter Motor
WoLi	Work Light

Bl	BLACK	Br	BROWN
Y	YELLOW	Lg	LIGHT GREEN
Bu	BLUE	Gr	GRAY
G	GREEN	Lb	LIGHT BLUE
R	RED	O	ORANGE
W	WHITE	P	PINK

EgSW (Engine Switch)

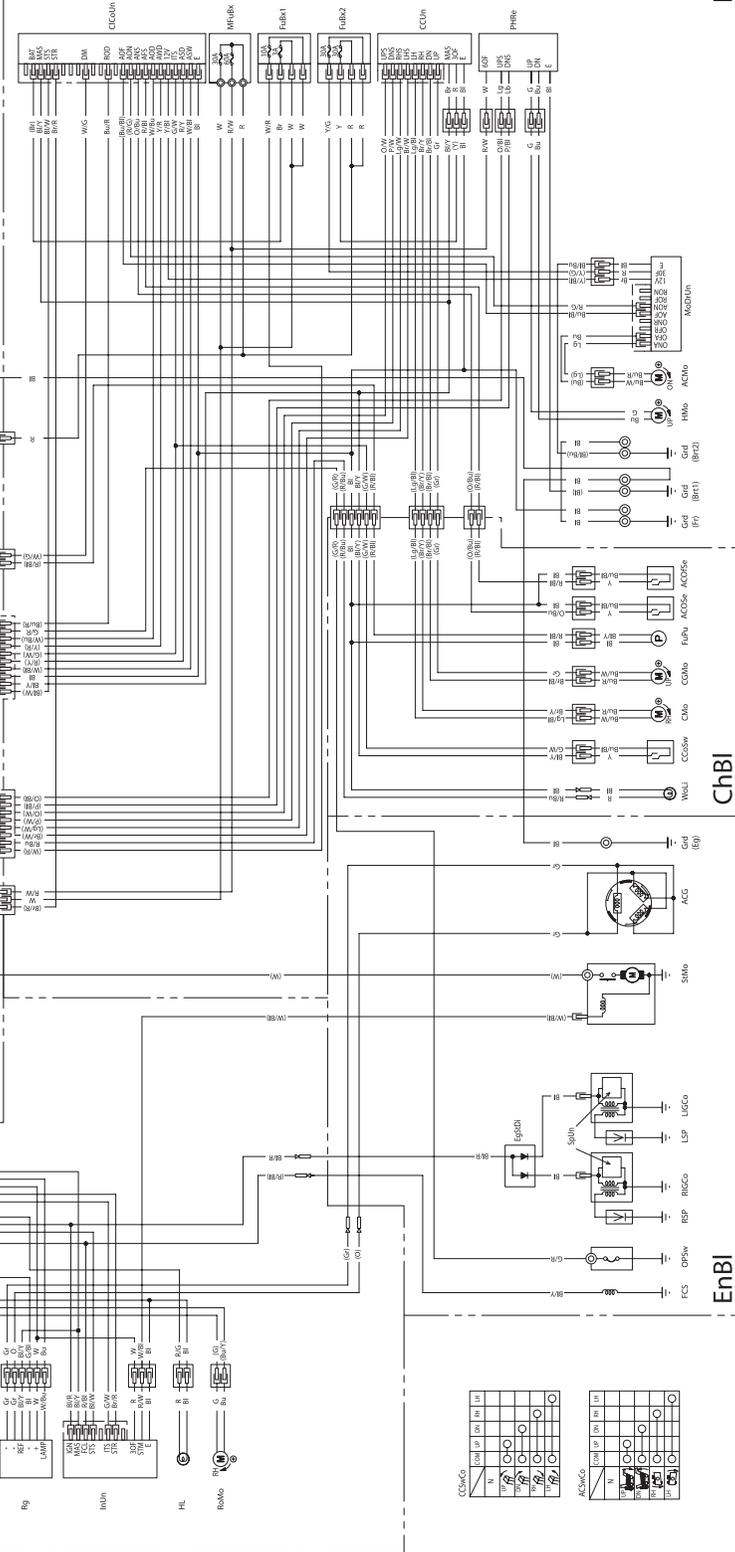
	BAT	ST	IG	E	LO
OFF			○	○	
ON	○				○
ST	○	○			○

CoPaBI



RiHaBI

LeHaBI

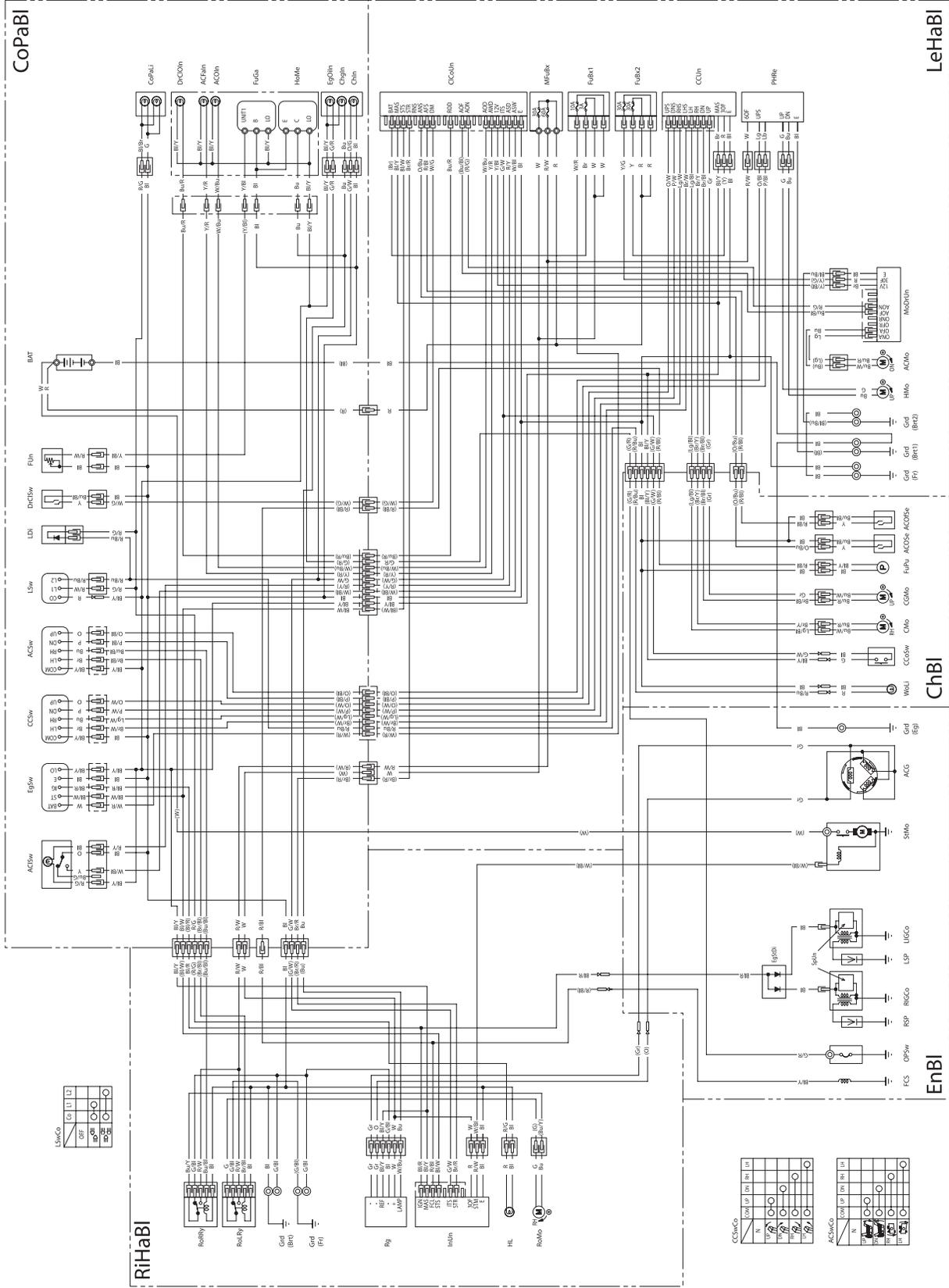


ChBI

EnBI

CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12

CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12
CSwG	1	2	3	4	5	6	7	8	9	10	11	12



LSWCo

ON	LI	L2
OFF	LI	L2
OFF	LI	L2
OFF	LI	L2

CCSwCo

ON	UP	DN	RH	LH
OFF	UP	DN	RH	LH
OFF	UP	DN	RH	LH
OFF	UP	DN	RH	LH

ACSwCo

ON	UP	DN	RH	LH
OFF	UP	DN	RH	LH
OFF	UP	DN	RH	LH
OFF	UP	DN	RH	LH

MEMO

MEMO

MEMO

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AUSTRIA

Honda Motor Europe (North)

Hondastraße 1
2351 Wiener Neudorf
Tel. : +43 (0)2236 690 0
Fax : +43 (0)2236 690 480
<http://www.honda.at>

BALTIC STATES (Estonia/Latvia/ Lithuania)

Honda Motor Europe Ltd.

Estonian Branch
Tulika 15/17
10613 Tallinn
Tel. : +372 6801 300
Fax : +372 6801 301
✉ honda.baltic@honda-eu.com.

BELGIUM

Honda Motor Europe (North)

Doornveld 180-184
1731 Zellik
Tel. : +32 2620 10 00
Fax : +32 2620 10 01
<http://www.honda.be>
✉ BH_PE@HONDA-EU.COM

BULGARIA

Kirov Ltd.

49 Tsaritsa Yoana blvd
1324 Sofia
Tel. : +359 2 93 30 892
Fax : +359 2 93 30 814
<http://www.kirov.net>
✉ honda@kirov.net

CROATIA

Hongoldonia d.o.o.

Jelkovecka Cesta 5
10360 Sesvete – Zagreb
Tel. : +385 1 2002053
Fax : +385 1 2020754
<http://www.hongoldonia.hr>
✉ jure@hongoldonia.hr

CYPRUS

Alexander Dimitriou & Sons Ltd.

162, Yiannos Kranidiotis Avenue
2235 Latsia, Nicosia
Tel. : + 357 22 715 300
Fax : + 357 22 715 400

CZECH REPUBLIC

BG Technik cs, a.s.

U Zavodiste 251/8
15900 Prague 5 - Velka
Chuchle
Tel. : +420 2 838 70 850
Fax : +420 2 667 111 45
<http://www.honda-stroje.cz>

DENMARK

Tima Products A/S

Tårnfalkevej 16
2650 Hvidovre
Tel. : +45 36 34 25 50
Fax : +45 36 77 16 30
<http://www.tima.dk>

FINLAND

OY Brandt AB.

Tuupakantie 7B
01740 Vantaa
Tel. : +358 20 775 7200
Fax : +358 9 878 5276
<http://www.brandt.fi>

FRANCE

Honda Relations Clients

TSA 80627
45146 St Jean de la Ruelle Cedex
Tel. : 02 38 81 33 90
Fax : 02 38 81 33 91
<http://www.honda-fr.com>
✉ espaceclient@honda-eu.com

GERMANY

Honda Motor Europe (North)

GmbH

Sprendlinger Landstraße 166
63069 Offenbach am Main
Tel. : +49 69 8309-0
Fax : +49 69 8320 20
<http://www.honda.de>
✉ info@post.honda.de

GREECE

General Automotive Co S.A.

71 Leoforos Athinon
10173 Athens
Tel. : +30 210 349 7809
Fax : +30 210 346 7329
<http://www.honda.gr>
✉ info@saracakis.gr

HUNGARY

Motor Pedo Co., Ltd.

Kamaraerdei ut 3.

2040 Budaors

Tel. : +36 23 444 971

Fax : +36 23 444 972

<http://www.hondakisgepek.hu>

✉ info@hondakisgepek.hu

ICELAND

Bernhard ehf.

Vatnagarðar 24-26

104 Reykjavík

Tel. : +354 520 1100

Fax : +354 520 1101

<http://www.honda.is>

IRELAND

Two Wheels Ltd

M50 Business Park, Ballymount

Dublin 12

Tel. : +353 1 4381900

Fax : +353 1 4607851

<http://www.hondaireland.ie>

✉ Service@hondaireland.ie

ITALY

Honda Italia Industriale S.p.A.

Via della Cecchignola, 5/7

00143 Roma

Tel. : +848 846 632

Fax : +39 065 4928 400

<http://www.hondaitalia.com>

✉ info.power@honda-eu.com

MALTA

**The Associated Motors
Company Ltd.**

New Street in San Gwakkın Road

Mriehel Bypass, Mriehel QRM17

Tel. : +356 21 498 561

Fax : +356 21 480 150

NETHERLANDS

Honda Motor Europe (North)

Afd. Power Equipment-

Capronilaan 1

1119 NN Schiphol-Rijk

Tel. : +31 20 7070000

Fax : +31 20 7070001

<http://www.honda.nl>

NORWAY

Berema AS

P.O. Box 454

1401 Ski

Tel. : +47 64 86 05 00

Fax : +47 64 86 05 49

<http://www.berema.no>

✉ berema@berema.no

POLAND

Aries Power Equipment Sp. z o.o.

ul. Wroclawska 25

01-493 Warszawa

Tel. : +48 (22) 861 43 01

Fax : +48 (22) 861 43 02

<http://www.ariespower.pl>

<http://www.mojahonda.pl>

✉ info@ariespower.pl

PORTUGAL

Honda Portugal, S.A.

Rua Fontes Pereira de Melo 16

Abrunheira, 2714-506 Sintra

Tel. : +351 21 915 53 33

Fax : +351 21 915 23 54

<http://www.honda.pt>

✉ honda.produtos@honda-eu.com

REPUBLIC OF BELARUS

Scanlink Ltd.

Kozlova Drive, 9

220037 Minsk

Tel. : +375 172 999090

Fax : +375 172 999090

<http://www.hondapower.by>

ROMANIA

Hit Power Motor Srl

Calea Giulesti N° 6-8 Sector 6

060274 Bucuresti

Tel. : +40 21 637 04 58

Fax : +40 21 637 04 78

<http://www.honda.ro>

✉ hit_power@honda.ro

RUSSIA

Honda Motor RUS LLC

21. MKAD 47 km., Leninsky district.

Moscow region, 142784 Russia

Tel. : +7 (495) 745 20 80

Fax : +7 (495) 745 20 81

<http://www.honda.co.ru>

✉ postoffice@honda.co.ru

SERBIA & MONTENEGRO

Bazis Grupa d.o.o.

Grcica Milenka 39

11000 Belgrade

Tel. : +381 11 3820 295

Fax : +381 11 3820 296

<http://www.hondasrbija.co.rs>

SLOVAKIA REPUBLIC

Honda Slovakia, spol. s r.o.

Prievozska 6 821 09 Bratislava

Tel. : +421 2 32131112

Fax : +421 2 32131111

<http://www.honda.sk>

SLOVENIA

AS Domzale Moto Center D.O.O.

Blatnica 3A

1236 Trzin

Tel. : +386 1 562 22 42

Fax : +386 1 562 37 05

<http://www.as-domzale-motoc.si>

SPAIN & Las Palmas province

(Canary Islands)

Greens Power Products, S.L.

Poligono Industrial Congost -

Av Ramon Ciurans n°2

08530 La Garriga - Barcelona

Tel. : +34 93 860 50 25

Fax : +34 93 871 81 80

<http://www.hondaencasa.com>

Tenerife province

(Canary Islands)

Automocion Canarias S.A.

Carretera General del Sur, KM. 8,8

38107 Santa Cruz de Tenerife

Tel. : + 34 (922) 620 617

Fax : +34 (922) 618 042

<http://www.aucasa.com>

✉ ventas@aucasa.com

✉ taller@aucasa.com

SWEDEN

Honda Nordic AB

Box 50583 - Väst kustvägen 17

20215 Malmö

Tel. : + 46 (0)40 600 23 00

Fax : + 46 (0)40 600 23 19

<http://www.honda.se>

✉ hpesinfo@honda-eu.com

SWITZERLAND

Honda Suisse S.A.

10, Route des Moulières

1214 Vernier - Genève

Tel. : + 41 (0)22 939 09 09

Fax : + 41 (0)22 939 09 97

<http://www.honda.ch>

TURKEY

Anadolu Motor Uretim ve

Pazarlama AS

Esentepe mah. Anadolu

Cad. No: 5

Kartal 34870 Istanbul

Tel. : +90 216 389 59 60

Fax : +90 216 353 31 98

<http://anadolumotor.com.tr>

✉ antor@antor.com.tr

UKRAINE

Honda Ukraine LLC

101 Volodymyrska Str. - Build. 2

Kyiv 01033

Tel. : +380 44 390 1414

Fax : +380 44 390 1410

<http://www.honda.ua>

✉ CR@honda.ua

UNITED KINGDOM

Honda (UK) Power Equipment

470 London Road

Slough - Berkshire, SL3 8QY

Tel. : + 44 (0)845 200 8000

<http://www.honda.co.uk>

CANADA

Honda Canada Inc.

Please visit www.honda.ca

for address information

Tel. : 1-888-946-6329

Fax : 1-877-939-0909

"EC Declaration of Conformity" CONTENT OUTLINE
"CE-Déclaration de conformité" DESCRIPTION DE TABLE DES MATIERES
"EU-Konformitätserklärung" INHALTSÜBERSICHT
DESCRIPCIÓN GENERAL DEL CONTENIDO DE LA "Declaración de Conformidad CE"
DESCRIZIONE DEL CONTENUTO DELLA "Dichiarazione CE di Conformità"

EC Declaration of Conformity

1. The undersigned, Piet Renneboog, on behalf of the authorized representative, herewith declares that the machinery described below fulfils all the relevant provisions of:
- Directive 2006/42/EC on machinery
 - Directive 2004/108/EC on electromagnetic compatibility
 - Directive 2000/14/EC – 2005/88/EC on outdoor noise

2. Description of the machinery

- a) Generic denomination: Snow thrower
 b) Function: removing snow

c) Commercial name	d) Type	e) Serial number
*1	*1	

3. Manufacturer

Honda Motor Co., Ltd.
 2-1-1 Minamiaoyama
 Minato-ku, Tokyo, JAPAN

4. Authorized representative

Honda Motor Europe Ltd. Aalst Office
 Wijngaardveld 1 (Noord V),
 9300 Aalst - BELGIUM

5. References to harmonized standards	6. Other standards or specifications
-	-

7. Outdoor noise Directive

- a) Measured sound power dB(A): *1
 b) Guaranteed sound power dB(A): *1
 c) Noise parameter (kW/min⁻¹): *1
 d) Conformity assessment procedure: ANNEX V
 e) Notified body: -

8. Done at:

Aalst , BELGIUM

9. Date:

 Piet Renneboog
 Homologation Manager
 Honda Motor Europe, Ltd., Aalst Office

*1: see specification page.

*1: voir page de spécifications

*1: Siehe Spezifikationen-Seite

*1: consulte la página de las especificaciones

*1: vedi la pagina delle caratteristiche tecniche

<p>Français. (French) Déclaration CE de Conformité 1. Le sou signé, Piet Renneboog, de la part du représentant autorisé, déclare que la machine décrit ci-dessous autorisée à toutes les dispositions applicables de * Directive Machine 2006/42/CE * Directive 2004/108/CE sur la compatibilité électromagnétique * Directive 2000/14/CE - 2005/88/CE des émissions sonores dans l'environnement des matériels destinés à être utilisés à l'extérieur des bâtiments 2. Description de la machine a) Dénomination générale : Fraise à neige b) Fonction : déneiger c) Nom Commercial e) Numéro de série 3. Constructeur 4. Représentant autorisé 5. Référence aux normes harmonisées 6. Autres normes et spécifications 7. Directive des émissions sonores dans l'environnement des matériels destinés à être utilisés à l'extérieur des bâtiments a) Puissance acoustique mesurée b) Puissance acoustique garantie c) Paramètre du bruit d) Procédure d'évaluation de conformité e) Organisme notifié 8. Fait à 9. Date</p>	<p>Italiano (Italian) Dichiarazione CE di Conformità 1. Il sottoscritto, Piet Renneboog, in qualità di rappresentante autorizzato, dichiara qui di seguito che la macchina sotto descritta soddisfa tutte le disposizioni pertinenti delle: * Direttiva macchine 2006/42/CE * Direttiva sulla compatibilità elettromagnetica 2004/108/CE * Direttiva sulla emissione acustica delle macchine e attrezzature destinate a funzionare all'aperto 2000/14/CE - 2005/88/CE 2. Descrizione della macchina a) Denominazione generica : Spazzaneve b) Funzione : Rimozione di neve c) Denominazione commerciale e) Numero di serie 3. Costruttore 4. Rappresentante Autorizzato 5. Riferimento agli standard armonizzati 6. Altri standard o specifiche 7. Direttiva sulla emissione acustica delle macchine e attrezzature destinate a funzionare all'aperto a) Livello di potenza sonora misurato b) Livello di potenza sonora garantito c) Parametri emissione acustica d) Procedura di valutazione della conformità e) Organismo notificato 8. Fatto a 9. Data</p>	<p>Deutsch (German) EG-Konformitätserklärung 1. Der Unterzeichner, Piet Renneboog erklärt hiermit im Namen der Bevollmächtigten, dass das hierunter genannte Maschine allen einschlägigen Bestimmungen der * entspricht. * Maschinrichtlinie 2006/42/EG * Richtlinie der Elektromagnetischen Kompatibilität 2004/108/EG * Geräuschrictlinie im Freien 2000/14/EG - 2005/88/EG 2. Beschreibung der Maschine a) Allgemeine Bezeichnung : Schneefräse b) Funktion : Schnee räumen c) Handelsbezeichnung d) Typ e) Seriennummer 3. Hersteller 4. Bevollmächtigter 5. Verweis auf harmonisierte Normen 6. Andere Normen oder Spezifikationen 7. Geräuschrictlinie im Freien a) gemessene Lautstärke b) Schalleistungspegel c) Geräuschvorgabe d) Konformitätsbewertungs Ablauf e) Benannte Stelle 8. Ort 9. Datum</p>
<p>Nederlands (Dutch) EG-verklaring van overeenstemming 1. Ondergetekende, Piet Renneboog, in naam van de gemachtigde van de fabrikant, verklaart hiermee dat het hieronder beschreven machine voldoet aan alle toepasselijke bepalingen van : * Richtlijn 2006/42/EG betreffende machines * Richtlijn 2004/108/EG betreffende elektromagnetische overeenstemming * Richtlijn 2000/14/EG - 2005/88/EG betreffende geluidsemissie (openlucht) 2. Beschrijving van de machine a) Algemene benaming : Sneeuwruimer b) Functie : sneeuw ruimen c) Handelsbenaming d) Type e) Serienummer 3. Fabrikant 4. Gemachtigde van de fabrikant 5. Referentie naar geharmoniseerde normen 6. Andere normen of specificaties 7. Geluidsemissierichtlijn (openlucht) a) Gemeten geluidsvermogensniveau b) Gewaarborgd geluidsvermogensniveau c) Geluidsparameter d) Conformiteitsbeoordelingsprocedure e) Aangemelde instantie 8. Plaats 9. Datum</p>	<p>Dansk (Danish) EF OVERENSTEMMELSEERKLÆRING 1. UNDERTEGNEDE, PIET RENNEBOOG, PÅ VEGNE AF DEN AUTORISEREDE REPRÆSENTANT, ERKLÆRER HERMED AT MASKINEN, SOM ER BESKREVET NEDENFOR, OPFYLDER ALLE RELEVANTE BESTEMMELSER I FØLGENDE: * MASKINDIREKTIV 2006/42/EF * EMC-DIREKTIV 2004/108/EF * DIREKTIV OM STØJEMMISSION 2000/14/EF - 2005/88/EF 2. BESKRIVELSE AF PRODUKTET a) FÆLLESBETEGNELSE : Snestyng b) ANVENDELSE : Snerydning c) HANDELSBETEGNELSE d) TYPE e) SERIENUMMER 3. PRODUCENT 4. AUTORISERET REPRÆSENTANT 5. REFERENCE TIL HARMONISEREDE STANDARDER 6. ANDRE STANDARDER ELLER SPECIFIKATIONER 7. DIREKTIV OM STØJEMMISSION FRA MASKINER TIL UDENDØRS BRUG a) MÅLT LYDEFFEKTNIVEAU b) GARANTERET LYDEFFEKTNIVEAU c) STØJPARAMETER d) PROCEDURE FOR OVERENSSTÆMMELSESVURDERING e) BEMYNDIGET ORGAN 8. STED 9. DATO</p>	<p>Ελληνικά (Greek) ΕΚ-Δήλωση συμμόρφωσης 1. Ο κάτωθι υπογεγραμμένος, Piet Renneboog, εκ μέρους του εξουσιοδοτημένου αντιπροσώπου με το παρόν δηλώνει ότι το παρακάτω περιγραφόμενο όχημα πληροί όλες τις σχετικές προδιαγραφές του: * Οδηγία 2006/42/ΕΚ για μηχανές * Οδηγία 2004/108/ΕΚ για την ηλεκτρομαγνητική συμβατότητα * Οδηγία 2000/14/ΕΚ - 2005/88/ΕΚ για το επιπέδο θορύβου σε εξωτερικούς χώρους. 2. Περιγραφή μηχανήματος a) Γενική ονομασία : Εκχιονιστικό b) Λειτουργία : για εκχιονισμός c) Εμπορική ονομασία d) Τύπος e) Αριθμός σειράς παραγωγής 3. Κατασκευαστής 4. Εξουσιοδοτημένος αντιπρόσωπος 5. Αναφορά σε εναρμονισμένα πρότυπα 6. Λοιπά πρότυπα ή προδιαγραφές 7. Οδηγία επιπέδου θορύβου εξωτερικών χώρων a) Μετρηθείσα ηχητική ένταση b) Εγγυημένη ηχητική ένταση c) Ηχητική παράμετρος d) Διαδικασία πιστοποίησης e) Οργανισμός πιστοποίησης 8. Η δοκιμή έγινε 9. Ημερομηνία</p>
<p>Svenska (Swedish) EG-försäkran om överensstämmelse 1. Undertecknad, Piet Renneboog, på uppdrag av auktoriserad representant, deklarerar härmed att maskinen beskriven nedan fullföljer alla relevanta bestämmelser enligt: * Direktiv 2006/42/EG gällande maskiner * Direktiv 2004/108/EG gällande elektromagnetisk kompatibilitet * Direktiv 2000/14/EG - 2005/88/EG gällande buller utomhus 2. Maskinbeskrivning a) Allmän benämning : Snöslunga b) Funktion : flytta snö c) Och varunamn d) Typ e) Serienummer 3. Tillverkare 4. Auktoriserad representant 5. referens till överensstämmande standarder 6. Andra standarder eller specifikationer 7. Direktiv för buller utomhus a) Uppmätt ljudnivå b) Garanterad ljudnivå c) Buller parameter d) Förfarande för bedömning e) Anmälda organ 8. Utfärdat vid 9. Datum</p>	<p>Español (Spanish) Declaración de Conformidad CE 1. El abajo firmante, Piet Renneboog, en representación del representante autorizado, adjunto declara que la máquina abajo descrita, cumple las cláusulas relevantes de: * Directiva 2006/42/CE de maquinaria * Directiva 2004/108/CE de compatibilidad electromagnética * Directiva 2000/14/CE - 2005/88/CE de ruido exterior 2. Descripción de la máquina a) Denominación genérica : Quitanieves b) Función : Quitar nieve c) Denominación comercial d) Tipo e) Número de serie 3. Fabricante 4. Representante autorizado 5. Referencia de los estándares armonizados 6. Otros estándares o especificaciones 7. Directiva sobre ruido exterior a) Potencia sonora medida b) Potencia sonora Garantizada c) Parámetros ruido d) Procedimiento evaluación conformidad e) Organismo notificado 8. Realizado en 9. Fecha</p>	<p>Română (Romanian) CE -Declaratie de Conformitate 1. Subsemnatul Piet Renneboog, in numele reprezentantului autorizat, declar prin prezenta faptul ca echipamentul descris mai jos indeplineste toate conditiile necesare din: * Directiva 2006/42/CE privind echipamentul * Directiva 2004/108/CE privind compatibilitatea electromagnetica * Directiva 2000/14/CE - 2005/88/CE privind poluarea fonica in spatiu deschis 2. Descrierea echipamentului a) Denumire generica : Freza pentru curatat zapada b) Domeniu de utilizare : indepartarea zapezii c) Denumire comerciala d) Tip e) Serie produs 3. Producator 4. Reprezentantul Autorizat 5. Referinta la standardele armonizate 6. Alte standarde sau norme 7. Directiva privind poluarea fonica in spatiu inchis a) Puterea acustica masurata b) Putere acustica maxim garantata c) Indice poluare fonica d) Procedura de evaluare a conformitatii e) Notificari 8. Emisa la 9. Data</p>

<p>Português (Portuguese) Declaração CE de Conformidade 1. O abaixo assinado, Piet Renneboog, declara deste modo, em nome do mandatário, que o máquina abaixo descrito cumpre todas as estipulações relevantes da: * Directiva 2006/42/CE de máquina * Directiva 2004/108/CE de compatibilidade electromagnética * Directiva 2000/14/CE - 2005/88/CE de ruído exterior 2. Descrição da máquina a) Denominação genérica : Limpa Neve b) Função : remoção de neve c) Marca d) Tipo e) Número de série 3. Fabricante 4. Mandatário 5. Referência a normas harmonizadas 6. Outras normas ou especificações 7. Directiva de ruído exterior a) Potência sonora medida b) Potência sonora garantida c) Parametro de ruído d) Procedimento de avaliação da conformidade e) Organismo notificado 8. Feito em 9. Data</p>	<p>Polski (Polish) Deklaracja zgodności WE 1. Niżej podpisany, Piet Renneboog, w imieniu upoważnionego przedstawiciela, niniejszym deklaruje, że urządzenie opisane poniżej spełnia wszystkie odpowiednie postanowienia: * Dyrektywa Maszynowa 2006/42/WE * Dyrektywa Kompatybilności Elektromagnetycznej 2004/108/WE * Dyrektywa Hałasowa 2000/14/WE - 2005/88/WE 2. Opis urządzenia a) Ogólne określenie : Odsnieżarka b) Funkcja : usuwanie śniegu c) Nazwa handlowa d) Typ e) Numery seryjne 3. Producent 4. Upoważniony Przedstawiciel 5. Zastosowane normy zharmonizowane 6. Pozostałe normy i przepisy 7. Dyrektywa Hałasowa a) Zmierzony poziom mocy akustycznej b) Gwarantowany poziom mocy akustycznej c) Wartość hałasu d) Procedura oceny zgodności e) Jednostka notyfikowana 8. Miejsce 9. Data</p>	<p>Suomi / Suomen kieli (Finnish) EY-VAATIMUSTENMUKAISUUSVAKUUTUS 1. Allekirjoittanut, Piet Renneboog vakuuttaa valmistajan edustaja, vakuuttaa täten että alla mainittu kone/tuote täyttää kaikki seuraavilla määräyksillä: * Koneidirektiivi 2006/42/EY * Direktiivi 2004/108/EY sähkömagneettinen yhteensopivuus * Direktiivi 2000/14/EY - 2005/88/EY ympäristön melu 2. TUOTTEEN KUVAUS a) Yleisarvomäärä : Lumilinko b) Toiminto : lumen poistaminen c) KAUPALLINEN NIMI d) TYYPPI e) SARJANUMERO 3. VALMISTAJA 4. VALMISTAJAN EDUSTAJAN 5. VIITTAUS YHTEISIIN STANDARDEIHIN 6. MUU STANDARDI TAI TEKNISET TIHDOT 7. Ympäristön meludirektiivi a) Mittattu melutaso b) Todenmukainen melutaso c) Melu parametrit d) Yhdenmukisuuden arvioinnin menettely e) Tiedonantolin 8. TEHTY 9. PÄIVÄMÄÄRÄ</p>
<p>Magyar (Hungarian) EK-megfelelőségi nyilatkozata 1. Alulírott Piet Renneboog, a gyártó cég törvényes képviselőjeként nyilatkozom, hogy az általam gyártott gép megfelel az összes, alább felsorolt direktívának: * 2006/42/EK Direktívának berendezésekre * 2004/108/EK Direktívának elektromágneses meglelelőségre * 2000/14/EK - 2005/88/EK Direktívának kültéri zajszintre 2. A gép leírása a) Általános megnevezés : Hómoró b) Funkció : hó eltakarítása c) Kereskedelmi név d) Típus e) Sorozatszám 3. Gyártó 4. Jogosult képviselő 5. Hivalkozással a szabványokra 6. Más előírások, megjegyzések 7. Kültéri zajszint Direktíva a) Mért hangerő b) Szavatolt hangerő c) Zajszint paraméter d) Megfelelőségi becslési eljárás e) Kijelölt szervezet 8. Keltezés helye 9. Keltezés ideje</p>	<p>Cestina (Czech) ES – Prohlášení o shodě 1. Podepsaný Piet Renneboog, jako autorizovaná osoba zde potvrzuje, že stroj popsaný níže splňuje požadavky příslušných opatření: * Směrnice 2006/42/ES pro strojní zařízení * Směrnice 2004/108/ES stanovující technické požadavky na výrobky z hlediska elektromagnetické kompatibility * Směrnice 2000/14/ES - 2005/88/ES stanovující technické požadavky na výrobky z hlediska emisí hluku zařízení pro venkovní použití 2. Popis zařízení a) Všeobecné označení : Snehová fréza b) Funkce : Úklid sněhu c) Obchodní název d) Typ e) Výrobní číslo 3. Výrobce 4. Autorizovaná osoba 5. Odkazy na harmonizované normy 6. Ostatní použitelné normy a specifikace 7. Směrnice pro hluk pro venkovní použití a) Naměřený akustický výkon b) Garantovaný akustický výkon c) Parametr hluku d) Způsob posouzení shody e) Notifikovaná osoba 8. Podepsáno v 9. Datum</p>	<p>Latviešu (Latvian) EK atbilstības deklarācija 1. Piet Renneboog ar savu parakstu zem šī dokumenta, autorizētā pārstāvja vārdā, paziņo, ka zemāk aprakstītie mašīna, atbilst visām zemāk norādīto direktīvu sadajām: * Direktīva 2006/42/EK par mašīnām * Direktīva 2004/108/EK attiecībā uz elektromagnētisko savietojamību * Direktīva 2000/14/EK - 2005/88/EK par trokšņa emisiju vidē 2. Iekārtas apraksts a) Vispārējais nosaukums : Sniega pūtējs b) Funkcija : sniega novākšana c) Komercoosaukums d) Tips e) Sērijas numurs 3. Ražotājs 4. Autorizētais pārstāvis 5. Atsaucē uz saskaņotajiem standartiem 6. Citi noteiktie standarti vai specifikācijas 7. Arņģio trokšņu Direktīva a) Izmērītā trokšņa līelums b) Pielaujamais trokšņa līelums c) Trokšņa parametri d) Atbilstības vērtējuma procedūra e) Informētā iestāde 8. Vieta 9. Datums</p>
<p>Slovenčina (Slovak) ES vyhlásenie o zhode 1. Dolepodpísaný, Piet Renneboog, ako autorizovaný zástupca výrobcu, týmto vyhlasuje, že uvedený stroj/ve je v zhode s nasledovnymi smernicami: * Smernica 2006/42/ES (Strojné zariadenia) * Smernica 2004/108/ES (Elektromagnetická kompatibilita) * Smernica 2000/14/ES - 2005/88/ES (Emisie hluku) 2. Popis stroja a) Druhové označenie : Snehová fréza b) Funkcia : Odstraňovanie snehu c) Obchodný názov d) Typ e) Výrobné číslo 3. Výrobca 4. Autorizovaný zástupca 5. Referencia k harmonizovaným štandardom 6. Ďalšie štandardy alebo špecifikácie 7. Smernica pre emisie hluku vo voľnom priestranstve a) Nameraná hladina akustického výkonu b) Zaručená hladina akustického výkonu c) Rozmer d) Procedúra posudzovania zhody e) Notifikovaná osoba 8. Miesto 9. Dátum</p>	<p>Eesti (Estonian) EÜ vastavusdeklaratsioon 1. Käesolevaga kinnitab allkirjutajana, Piet Renneboog, volitatud esindaja nimel, et allpool kirjeldatud masina vastab kõikidele alljärgnevat direktiivide sätetele: * Masinate direktiiv 2006/42/EÜ * Elektromagnetilise ühilduvuse direktiiv 2004/108/EÜ * Välsürmura direktiiv 2000/14/EÜ - 2005/88/EÜ 2. Seadmete kirjeldus a) Üldnimetus : Lumepuhur b) Funktsioon : lume eemaldamine c) Kaubanduslik nimetus d) Tüüp e) Seerianumber 3. Tootja 4. Volitatud esindaja 5. Viide ühtlustatud standarditele 6. Muud standardid ja spetsifikatsioonid 7. Välsürmura direktiiv a) Mõõdetud helivõimsuse tase b) Lubatud helivõimsuse tase c) Mõõra parameetrid d) Vastavushindamismenetlus e) Teavitatud asutus 8. Koht 9. Kuupäev</p>	<p>Slovenscina (Slovenian) ES izjava o skladnosti 1. Spodaj podpisani, Piet Renneboog, ki je pooblaščen oseba in v imenu proizvajalca izjavlja, da spodaj opisana stroj ustreza vsem navedenim direktivam: * Direktiva 2006/42/ES o strojih * Direktiva 2004/108/ES o elektromagnetni združljivosti * Direktiva 2000/14/ES - 2005/88/ES o hrupnosti 2. Opis naprave a) Vrsta stroja : Snehna freza b) Funkcija : odmetavanje snega c) Trgovski naziv d) Tip e) Serijska številka 3. Proizvajalec 4. Pooblaščen predstavnik 5. Uporabeni harmonizirani standardi 6. Ostali standardi ali specifikacij 7. Direktiva o hrupnosti a) Izmerjena zvočna moč b) Garantirana zvočna moč c) Parameter d) Postopek opravljenosti e) Postopek opravljenosti 8. Kraj 9. Datum</p>

<p>Lietuvių kalba (Lithuanian) EB atitikties deklaracija 1. Įgaliotojo atstovo vardu pasirašęs Piet Renneboog patvirtina, kad žemiau aprašyta mašina atitinka visas išvardintų direktyvų nuostatas: * Mechanizmų direktyva 2006/42/EB * Elektromagnetinio suderinamumo direktyva 2004/108/EB * Triukšmo lauke direktyva 2000/14/EB - 2005/88/EB 2. Priešais aprašymas a) Bendras pavadinimas : Sniego pūtklis b) Funkcija : sniego nuvalymas c) Komercinis pavadinimas d) Tipas e) Serijos numeris 3. Gamintojas 4. Įgaliotasis atstovas 5. Nuorodos į suderintus standartus 6. Kiti standartai ir sertifikacija 7. Triukšmo lauke direktyva a) Išmatuotas garso galimumo lygis b) Garantuojamas garso galimumo lygis c) Triukšmo parametras d) Tipas e) Registruota įstaiga 8. Vieta 9. Data</p>	<p>Български (Bulgarian) ЕО декларация за съответствие 1. Долоподписаният Пайът Ренебуг, от името на упълномощения представител, с настоящото декларирам, че машините, описани по-долу, отговарят на всички съответни разпоредби на: * Директива2006/42/ЕО относно машините * Директива 2004/108/ЕО относно електромагнитната съвместимост Директива 2000/14/ЕО - 2005/88/ЕО относно шумовите емисии на съоръжения, предназначени за употреба извън сградите a) Общо наименование : Снегорин b) Функция : почистване на сняг c) Търговско наименование d) Тип e) Серийен номер 3. Производител 4. Упълномощен представител 5. Съответствие с хармонизирани стандарти 6. Други стандарти или спецификации 7. Директива относно шумовите емисии на съоръжения, предназначени за употреба извън сградите a) Измерена звукова мощност b) Гарантирана звукова мощност c) Параметърът шум d) Процедурата за оценка на съответствието e) Идентифициран орган 8. Място на изготвяне 9. Дата на изготвяне</p>	<p>Norsk (Norwegian) EF- Samsvarserkl-ring 1. Undertegnede Piet Renneboog på vegne av autorisert representant herved erklærer at maskinene beskrevet nedenfor innfrir relevant informasjon fra følgende forskrifter. * Maskindirektivet 2006/42/EF * Direktiv EMC: 2004/108/EF Elektromagnetisk kompatibilitet * Direktiv om støy utendørs 2000/14/EF - 2005/88/EF 2. Beskrivelse av produkt a) Felles benevnelse : Snøfres b) Funksjon : Måke snø c) Handelsnavn d) Type e) Serienummer 3. Produsent 4. Autorisert representant 5. Referanse til harmoniserte standarder 6. Øvrige standarder eller spesifikasjoner 7. Utendørs direktiv får støy a) Målt støy b) Maks støy c) Konstant støy d) Verdi vurderings prosedyre e) Gjeldene kjøretøy/kropp/stamme/skrog 8. Sted 9. Dato</p>
<p>Türk (Turkish) AT Uygunluk Beyanı 1. Aşağıda imzası bulunan Piet Renneboog, Yetkili Temsilci olarak aşağıda tarif edilen makinanın, şu yönetmeliklerin ilgili hükümlerine uygunluğunu beyan eder: * Makina Emniyet Yönetmeliği 2006/42/AT * Elektromanyetik Uyumluluk Yönetmeliği 2004/108/AT * Açık Alanda Kullanılan Teçhizat Tarafından Oluşturulan Çevredeki Gürültü Emisyonu İle İlgili Yönetmelik 2000/14/AT-2005/88/AT 2. Makinanın tanıtı a) Jenerik adlandırılması : Kar püskürtme makinesi b) İşlevi : Karın kaldırılması c) Ticari adı d) Tipi e) Seri numarası 3. İmalatçı 4. Yetkili Temsilci 5. Uyumlaştırılmış standartlara atf 6. Diğer standartlar veya spesifikasyonlar 7. Açık alan gürültü Yönetmeliği a) Ölçülen ses gücü b) Garanti edilen ses gücü c) Gürültü parametresi d) Uygunluk değerlendirme prosedürü e) Onaylanmış kuruluş 8. Beyanın yeri : 9. Beyanın tarihi :</p>	<p>Íslenska(Icelandic) EB-Samræmisýfirlýsing 1. Undirritaður Piet Renneboog staðfestir hér með fyrir hönd löggildra aðila að upplýsingar um vélbúnað hér að neðan eru tæmandi hvað varðar alla tilheyrandi mátaflokkka, svo sem *Leiðbeiningar fyrir vélbúnað 2006/42/EB *Leiðbeiningar fyrir rafsegulsvið 2004/108/EB *Leiðbeiningar um hávaðamengun 2000/14/EB-2005/88/EB 2. Lýsing á vélbúnaði a) Flokkur : Snjóblásari b) Virkni : Snjóþurrstúfur c) Nafn d) Tegund e) Serial númer 3. Framleiðandi 4. Löggildir aðilar 5. Tilvisun um heildar staðal 6. Aðrir staðlar eða sérstöður 7. Leiðbeiningar um hávaðamengun a) Mældur hávaða styrkur b) Staðfestur hávaða styrkur c) Hávaða breytileiki d) Staðfesting á gæðastöðlum e) Merkingar 8. Gert hjá 9. Dagsetning</p>	

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