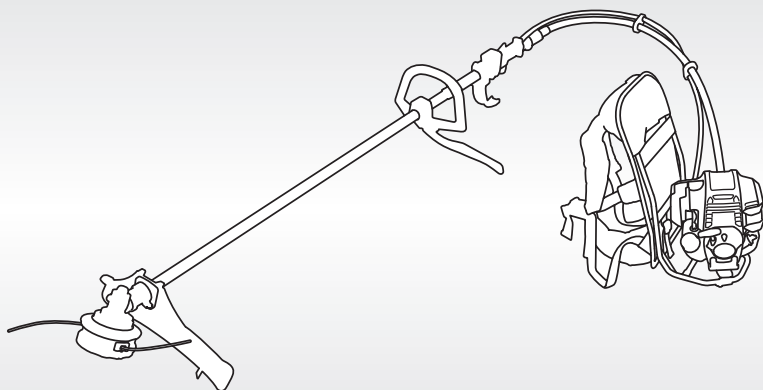


HONDA

GRASS TRIMMER

UMR450T



OWNER'S MANUAL
MANUAL DEL PROPIETARIO

Honda UMR450T

OWNER'S MANUAL

Original instructions

MANUAL DEL PROPIETARIO

Manual original

INTRODUCTION

Thank you for purchasing a Honda grass trimmer.

This manual covers the operation and maintenance of the Honda GRASS TRIMMER UMR450T.

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 grass trimmer 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 the grass trimmer, consult an authorized Honda dealer.

Honda grass trimmers are designed to give safe and dependable service if operated according to instructions.

▲WARNING

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

The use of this product may be subject to national or local regulations. Follow the prescribed regulations.

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

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



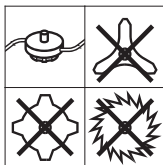
- Honda grass trimmer is designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the grass trimmer. Failure to do so could result in personal injury or equipment damage.



- Keep all persons and pets away from the grass trimmer operating area.
- Machine fitted with a cutting attachment can be thrown violently to the side when the cutting attachment comes into contact with solid objects. To prevent accidental contacts with the wheeling cutting attachment or thrown objects from the wheeling cutting attachment, keep people and pets at least 15 m away from the grass trimmer when it is in use.



- Wear ear muffs/ear plugs, eye protection, helmet and other protective devices to protect your ears, your eyes and body from noise and all objects (gravel, glass, wire, etc.) thrown by the wheeling cutting attachment.



- Use the grass trimmer with a flexible cutting means (nylon line type) only. Do not use metal blades, plastic blades or circular saw blades.



- For safety, the loop handle must not be installed beyond the handle set mark.

▲WARNING**To ensure safe operation****Operator Responsibility**

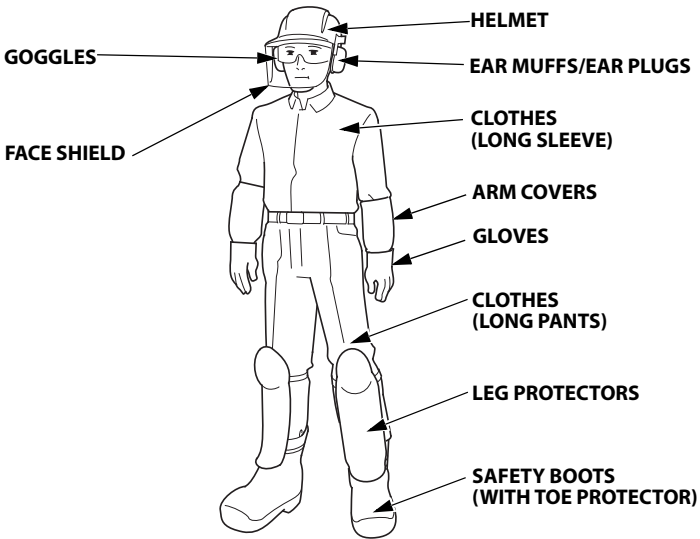
- Never operate the grass trimmer when tired, ill or under influence of alcohol or other drugs.
- Any part from the machine is a potential source of danger if the machine is used in abnormal conditions or if the maintenance is not done correctly.
- Never attempt to modify the grass trimmer. It can cause an accident as well as damage to the grass trimmer and appliances.
 - Do not connect an extension to the muffler.
 - Do not modify the intake system.
 - Do not adjust the governor.
- Read the owner's manual carefully. Be familiar with the controls and their proper use of the grass trimmer. Know how to stop the engine rapidly.
- Use the grass trimmer for the purpose it is intended for, that is trimming. Any other use could be dangerous or damage the grass trimmer. Do not use the grass trimmer as a pruning hook.
- Never allow children or people unfamiliar with this owner's manual to use the grass trimmer. Local regulations may restrict the age of the operator.
- If you lend or resell your grass trimmer to a third person, instruct him or her with how to handle the product and alert him or her to read the Owner's Manual carefully before operation.
- Never operate the grass trimmer while:
 - people, especially children or pets are nearby.
 - user is fatigued or under medication, or has swallowed substances known to affect judgement or reactions.
- Keep people and pets at least 15 m away from the operator during operation. Note that an assistant to the operator should work at least 15 m away from the operator, too. We recommend to decide the engine stop signal and other signals between the operator and assistant, and use them for safety during operation.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

▲WARNING**To ensure safe operation****Operator Responsibility**

- While operating the grass trimmer, always wear following protective clothing and protective devices.
 - Protective clothing
 - Wear adequate clothes with long sleeves and long pants.
 - The clothes must fit your body and button up or zip up the clothes securely.
 - Do not leave the sleeves and bottom of the shirt/jacket loose.
 - Wear the arm covers, too.
 - Do not wear the clothes with the tapes, laces and/or ribbons, loose clothes, necktie, necklace, etc. during operation. They can be caught in the grass trimmer or on the weed causing injury.
 - Bind your hair if it is long, and do not let your hair below your shoulder.
 - Protective devices
 - * Goggles
 - Wear the goggles or other eye protection to protect your eyes from the debris that is thrown by the wheeling cutting attachment.
 - * Helmet
 - Wear the helmet to protect your head from the overhead branches and the falling foreign material.
 - * Face shield
 - Wear face shield to protect your face from the debris thrown by the wheeling cutting attachment.
 - * Ear muffs/ear plugs
 - Wear the ear muff, ear plugs or other hearing protection to protect your ears from the noise, and to reduce the risk of hearing loss from noise.
 - * Gloves
 - Wear the gloves to protect your hands.
 - * Safety boots
 - Wear the safety boots with the non-slip sole and toe protector to protect your feet from the flying debris.
 - Do not operate the equipment when barefoot or wearing open sandals.
 - Wear the leg protectors as well.

⚠ WARNING**To ensure safe operation****Operator Responsibility***** Dust mask**

We recommend that you wear the dust mask if you suffer from the allergic rhinitis, e.g. pollinosis, etc. The dust mask is available at a pharmacy and it is helpful for reducing the amount of pollens you breathe.



- Before each use, visually inspect the grass trimmer including a cutting attachment for any damage and looseness of fastening part.
- Before each use, look around and underneath the engine for signs of oil or petrol leaks.
- Avoid operating the grass trimmer at night or in a bad weather of poor visibility, because there is much possibility of accident.
- Walk, never run during operation.
- Avoid operating the grass trimmer on a steep slope.
The steep slope is very slippery, so you can slip down.

⚠ WARNING**To ensure safe operation****Operator Responsibility**

- Do not operate the grass trimmer with the cutting attachment guard, labels, and other parts removed.
Note that the cutting attachment guard is provided for protection of the operator from the debris that are thrown from the wheeling cutting attachment. Never operate the grass trimmer with the cutting attachment guard removed or before installing the cutting attachment guard in the proper position securely.
- Do not mount an incorrect part and do not tamper with the grass trimmer as it can result in personal injury and/or equipment damage. Use the cutting attachment that is designated for your model and application.
- Before cranking the engine, be sure to check the cutting attachment cannot come into contact with the ground or any obstruction.
Failure to do so may result in losing control of the grass trimmer, because the flexible shaft enables the cutting attachment to move freely to any direction without your intention.
- Start the engine carefully according to instructions and with hands and feet well away from the cutting attachment.
- Start the grass trimmer on a level surface, free of high grass or obstacle.
- Do not raise the cutting attachment above your knee height during operation.
You can be hit by the debris thrown by the wheeling cutting attachment in your eyes and face causing injury.
- Never carry the grass trimmer while the cutting attachment is turning. Before you carry the grass trimmer, be sure to stop the engine and confirm the cutting attachment stops its turning.

⚠ WARNING**To ensure safe operation****Operator Responsibility**

- Stop the engine with the engine switch (start/stop switch) to the OFF position in the following cases:
 - Before any operation around the cutting attachment.
 - Before checking, cleaning or working on the grass trimmer.
 - After striking a foreign object. Inspect the grass trimmer for damage and make repairs before restarting and operating the grass trimmer again.
 - If grass trimmer starts to vibrate abnormally. Check immediately the cause of the vibration and perform the necessary repair.
 - Whenever you leave the grass trimmer unattended.
 - Before refuelling.
 - When any person or pet is approaching.
 - Shut off the engine immediately when the grass trimmer shows abnormal vibration suddenly. Sudden vibration can suggest the damaged rotating parts or loose fasteners. Examine the cause of the problem, and do not start the engine before repair is made.
 - When wires catch on the wheeling cutting attachment and flap around. Remove the wires after the cutting attachment has stopped turning.
 - Before placing the grass trimmer on the ground, make sure the cutting attachment stops turning as well.

Note that the cutting attachment is turning by inertia right after returning the throttle trigger and while the engine is idling.
 - When removing the tangled grass and brush from the cutting attachment or cutting attachment guard.
- The grass trimmer is faulty when the engine is idling by returning the throttle but the cutting attachment keeps turning, and Idling speed adjustment must be made. Consult your authorized Honda dealer.
- Keep all nuts, bolts and screws tight to be sure the grass trimmer is in safe working condition. Regular maintenance is an essential aid to user's safety and retaining a high level of performance.
- After any impact or dropping, check for signs of wear or damage and repair as necessary.

▲WARNING**To ensure safe operation****Operator Responsibility**

- Do not use the grass trimmer with worn or damaged parts. Parts must be replaced, or repaired. Replace worn or damaged parts with Honda genuine parts. Non equivalent quality parts may damage the machine and be prejudicial to your safety.
- When shouldering the grass trimmer, take care not to touch the throttle trigger. Failure to do so may increase the engine speed and result in starting the cutting attachment rotation, which can cause serious injury.
- Hold the grass trimmer firmly with both hands, with your fingers and thumbs encircling the handles as shown. This will help you to keep the grass trimmer under control at all times.
 - Keep firm footing and balance.
 - Do not overreach.
 - Keep the cutting attachment below your knee height.
 - Keep all parts of your body away from the rotating cutting attachment and hot surfaces.



▲WARNING**To ensure safe operation****Operator Responsibility**

- Injury caused by vibration and cold:

You may feel the prickling or burning pain in your fingers, and the fingers may lose color and feeling depending on your constitution.

It is believed that these symptoms are brought by vibration and/or exposure to cold. The specific trigger point of these symptoms are not identified yet, but observe the following instructions.

- * Limit the amount of time you spend operating the grass trimmer in a day.
A day's work should consist of the work with the grass trimmer and the other work without the hand-held equipment so you can limit the amount of time when your hands are exposed to the machine vibration.
- * Keep your body warm, especially your hands, wrists and arms.
- * Take your breaks at shorter intervals and exercise your arms well to maintain good blood circulation. Do not smoke while working.
- * When you feel discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your doctor promptly.
- Injury caused by repeated operation:
Performing the repeated operation for a prolonged time may cause injury. Observe the following instructions to reduce the causes of the injury.
 - * Avoid the repeated operation by using your wrist(s) in bent, stretched or twisted position.
 - * Take your breaks regularly to minimize the effect of the repeated operation. Take your time when performing the repeated operation. Do not rush to operate the grass trimmer.
 - * When your fingers, hands, wrists and/or arms are throbbing or numbed, consult your doctor.

⚠ WARNING**To ensure safe operation****Child Safety**

- Keep children indoors and supervised at all times any outdoor power grass trimmer is being used nearby. Young children move quickly and are attracted especially to the grass trimmer and trimming activity.
- Never assume children will remain where you last saw them. Be alert and turn the grass trimmer off if children enter the area.
- Children should never be allowed to operate the grass trimmer, even under adult supervision.

Thrown Object Hazard

Objects hit by the wheeling cutting attachment can be thrown from the grass trimmer with great force, and may cause serious injury.

- Thoroughly inspect the area where the grass trimmer is to be used and remove all objects (stones, branches, wires, bones, etc...) which may be thrown by the wheeling cutting attachment.

▲WARNING**To ensure safe operation****Fire and Burn Hazard**

Petrol is extremely flammable, and petrol vapour can explode.

Use extreme care when handling petrol. Keep petrol out of reach of children.

- Store fuel in containers specifically designed for this purpose.
- Refuel outdoors only, and do not smoke while refuelling or handling fuel.
- Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
- If petrol is spilled, do not attempt to start the engine but move the grass trimmer away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
- Tighten all fuel tanks and container caps securely.

When you start the engine after refueling, be sure to start the engine at least 3 m away from the refueling spot.

- Never store the grass trimmer with petrol in the tank inside a building where fumes may reach an open flame, spark or high temperature source.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the grass trimmer, especially the engine, muffler, the petrol storage area as well, free of grass, leaves, or excessive grease. Do not leave containers of vegetable matters in or near a building.
- If the fuel tank has to be drained, this should be done outdoors, with a cold engine.

⚠ WARNING**To ensure safe operation****Carbon Monoxide Poisoning Hazard**

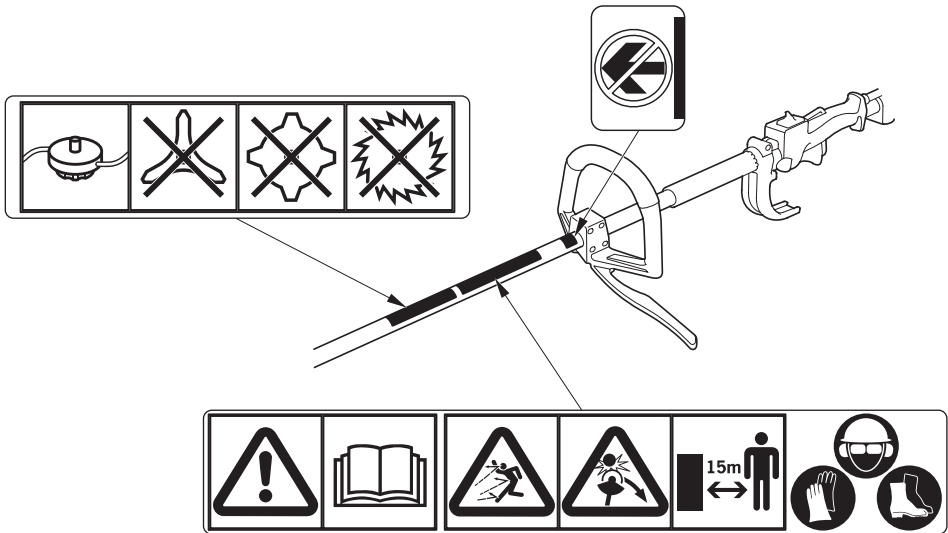
Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

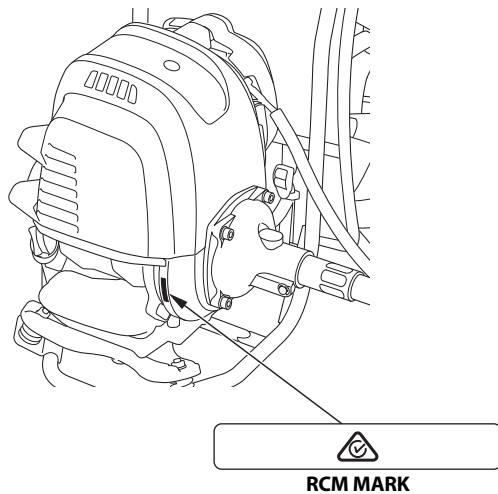
- If you run the engine in an area that is confined or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. To keep exhaust gas from building up, provide adequate ventilation.
- Replace faulty muffler.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

2. SAFETY LABEL LOCATIONS

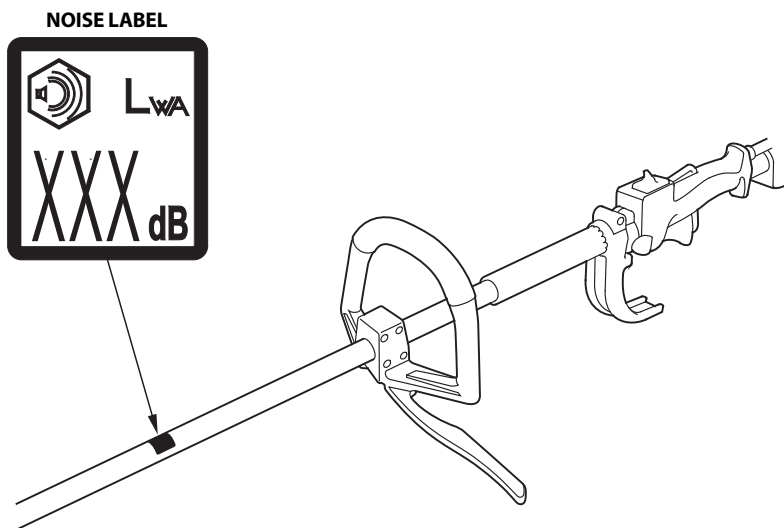
Your grass trimmer must be used with care. Therefore, decals have been placed on the machine, to remind you pictorially of main precautions to take during use. Their meanings are explained on page 3.

These decals are considered as a part of the grass trimmer. Should one become detached or unreadable, contact your servicing dealer for its replacement.

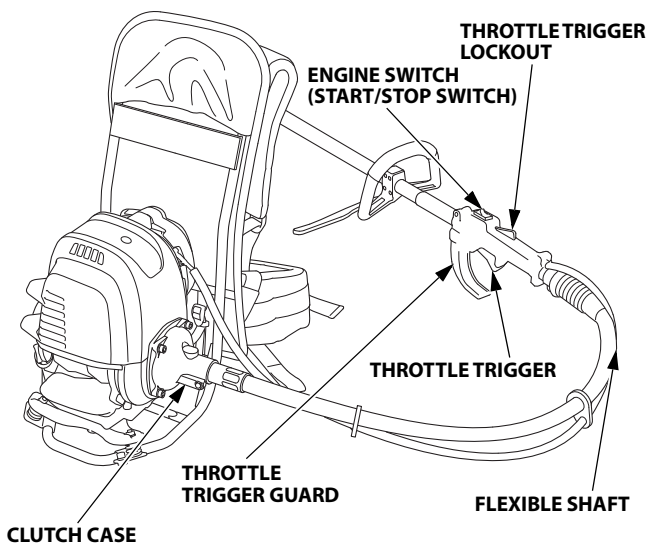
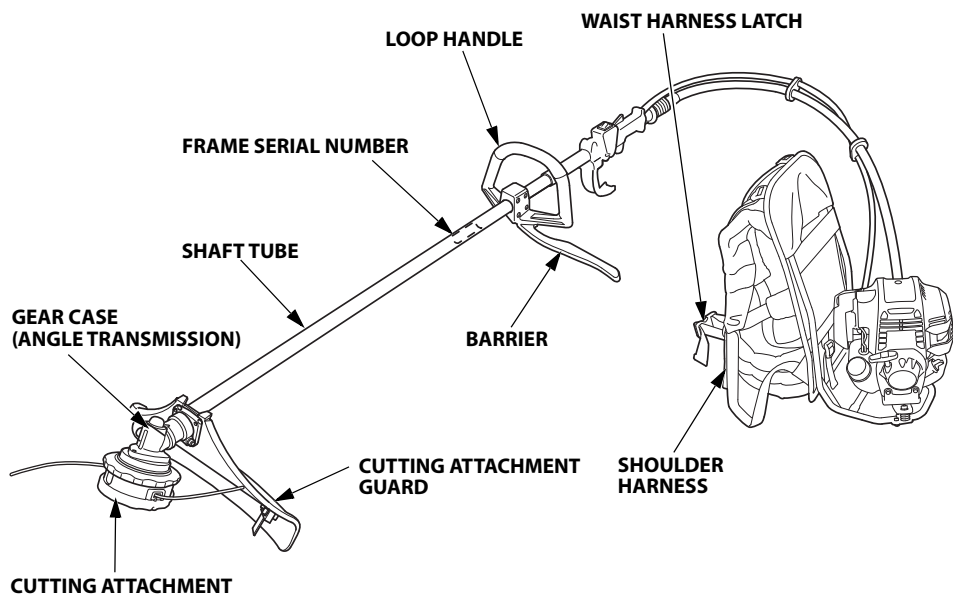


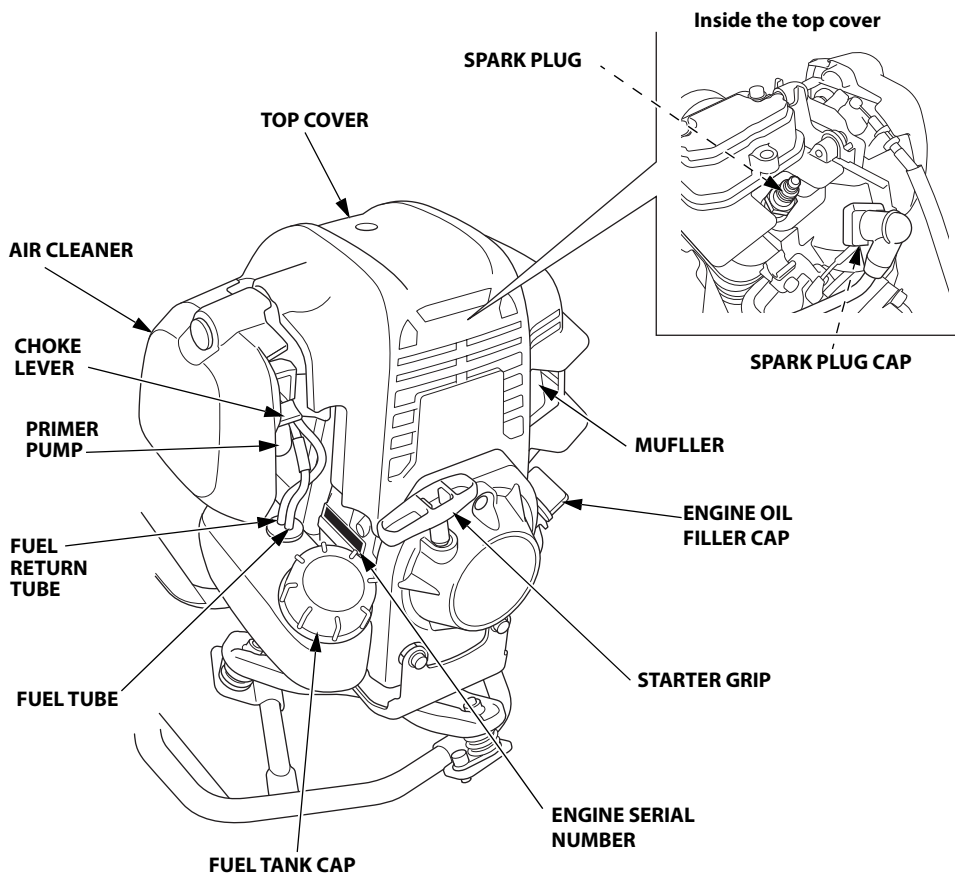


Noise label location



3. COMPONENT IDENTIFICATION





Record the frame serial number (see page 17) and the engine serial number in the space below. You will need these numbers when ordering parts.

Frame serial number: _____

Engine serial number: _____

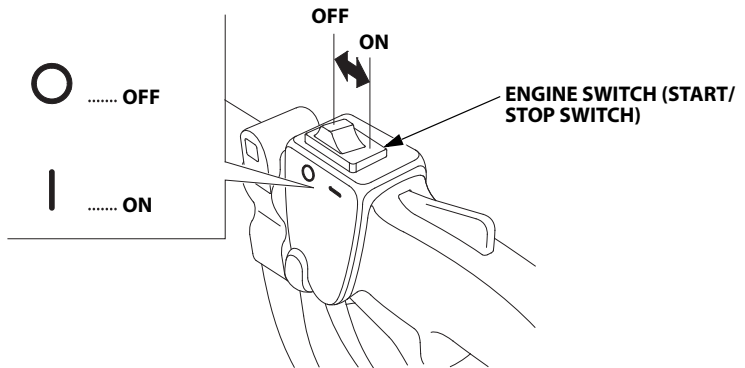
Date purchased: _____

1. Engine switch (start/stop switch)

The engine switch (start/stop switch) enables and disables the ignition system.

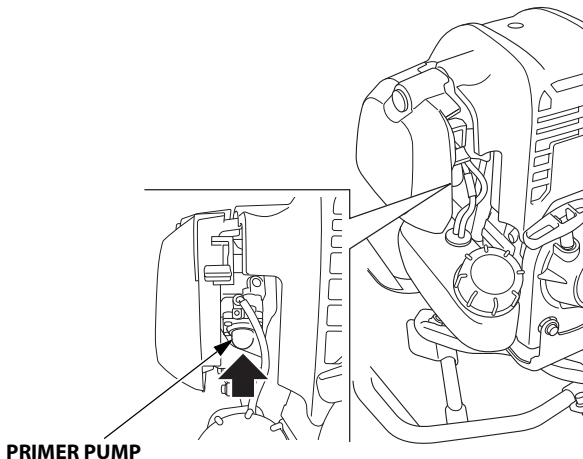
The engine switch (start/stop switch) must be in the ON position for the engine to run.

Turning the engine switch (start/stop switch) to the OFF position stops the engine.



2. Primer pump

Pressing the primer pump feeds the petrol from the fuel tank to the carburetor. This procedure is necessary for starting the engine.

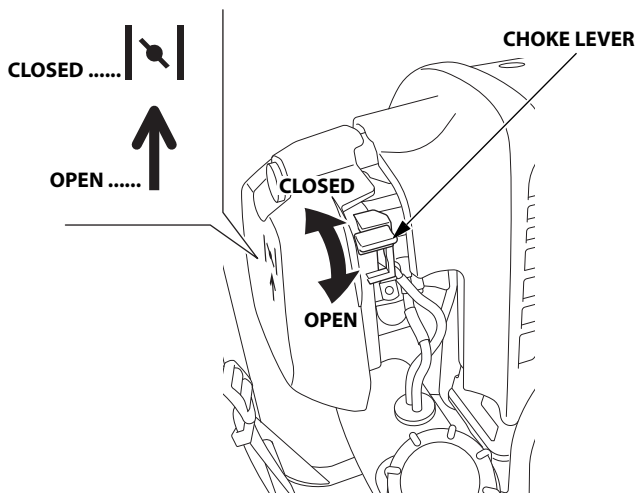


3. Choke lever

The choke lever opens and closes the choke valve in the carburetor.

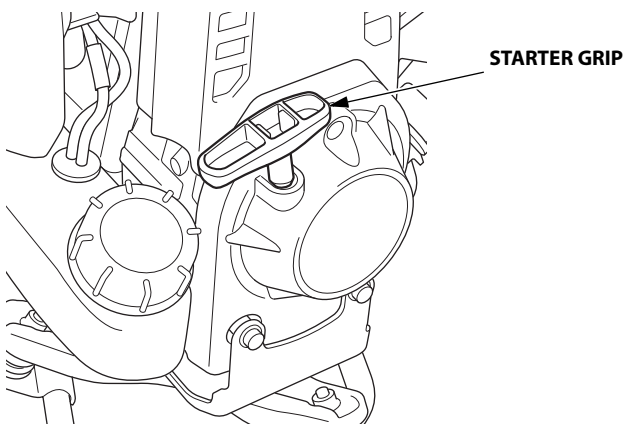
The CLOSED position enriches the fuel mixture for starting a cold engine.

The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.



4. Starter grip

Pulling the starter grip operates the recoil starter to crank the engine for starting.



5. Throttle trigger

The throttle trigger controls engine speed.

Pulling and releasing the throttle trigger shown below makes the engine run faster or slower.

NOTE:

The throttle trigger lockout must be depressed before the throttle trigger can be activated.

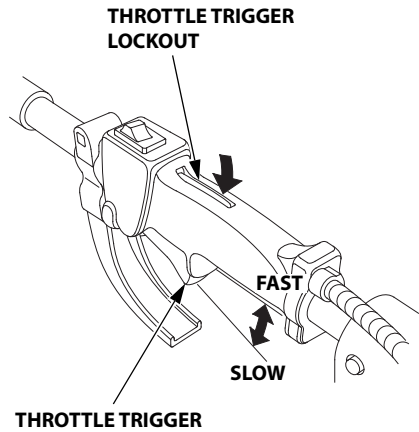
By pulling the throttle trigger gradually, the engine speed increases and the cutting attachment starts to run.

Pull the throttle trigger more to accelerate the engine speed and the trimming rotating speed.

By releasing the throttle trigger, the engine speed decreases and the cutting attachment keeps turning for a while by inertia, then it stops.

Throttle trigger lockout:

The throttle trigger lockout makes the throttle trigger operable. The throttle trigger cannot be pulled unless the throttle trigger lockout has been pushed beforehand.

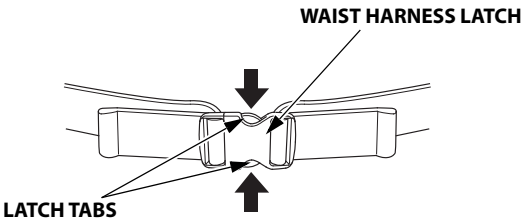


6. Waist harness latch

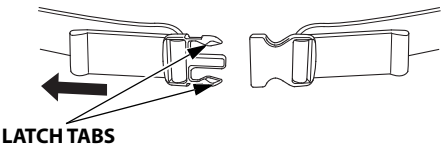
The waist harness latch is provided to detach the trimmer from your body in an emergency.

Push the latch tabs of the waist harness latch with your fingers, and shoulder off the backpack power unit.

Push the latch tab from both sides.



This will unbuckle and release the waist harness latch.



5. PRE-OPERATION CHECKS

For safe and efficient trimming, always make a pre-operation inspection before operating:

▲WARNING

Perform a pre-operation inspection on a firm, level surface with the engine stopped and make sure that the engine switch (start/stop switch) is in the OFF position.

Before each use, look around and underneath the engine for signs of oil or petrol leaks.

1. Check the engine oil level

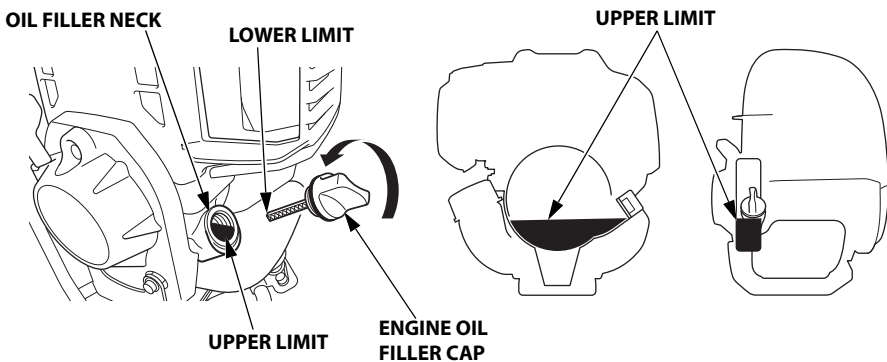
CAUTION:

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

Check the engine oil level with the engine stopped and in a level position.

1. Remove the oil filler cap.
2. Check the oil level. If it is below the upper limit, fill with the recommended oil (see page 24) to the upper limit.
3. Reinstall the oil filler cap securely.

If the engine is operated for more than 10 hours continuously, check the engine oil level and replenish oil up to the top of the oil filler neck every 10 hours.



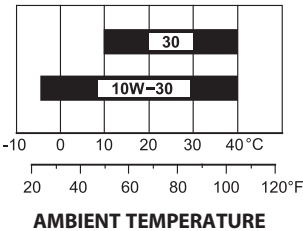
Use 4-stroke engine oil that meets or exceeds the requirements for API service classification SE or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SE or later (or equivalent).

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

Lubrication oil specifications necessary to maintain the performance of the emissions control system:
Honda genuine oil.

CAUTION:

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



2. Check the fuel level

Use automotive unleaded petrol with a Research Octane Number of 91 or higher (a Pump Octane Number of 86 or higher).

Never use petrol that is stale, contaminated, or mixed with oil.

Avoid getting dirt or water in the fuel tank.

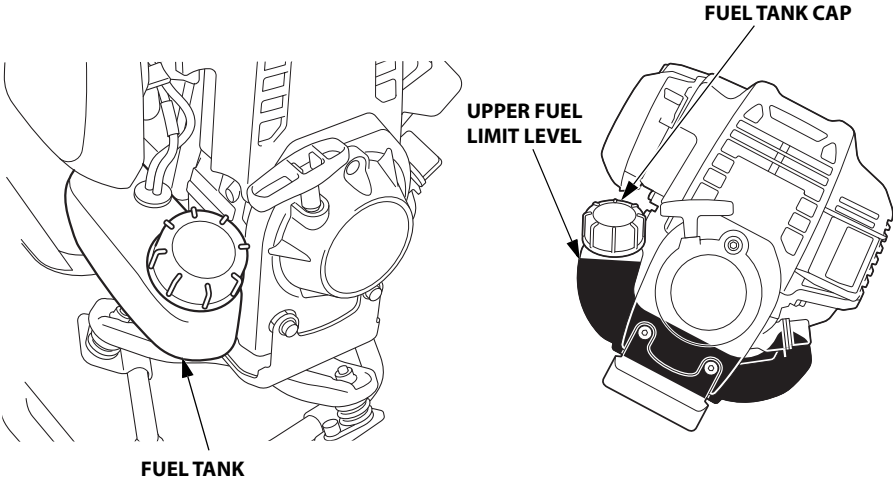
▲WARNING

- **Petrol 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 petrol is stored.**
 - **Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.**
 - **Be careful not to spill fuel when refueling. Spilled fuel or fuel vapour 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 vapour.**
- KEEP OUT OF REACH OF CHILDREN.**

CAUTION:

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

-
1. Check the fuel level visually from the outside of the fuel tank while keeping the fuel filler neck upright.
 2. If the fuel level is low, refuel the fuel tank until the level as specified. Remove the fuel tank cap gradually to release a pressurized air in the fuel tank. Fuel in the fuel tank may spout out, if the fuel tank cap is removed quickly.



NOTE:

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

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

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

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

To avoid this please strictly follow these recommendations:

- Only use specified petrol (see page 25).
- Use fresh and clean petrol.
- To slow deterioration, keep petrol in a certified fuel container.
- If long storage (more than 30 days) is foreseen, drain fuel tank and carburetor (see pages 72 and 73).

Petrols containing alcohol

If you decide to use a petrol 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 petrol 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 petrol that contains more alcohol than recommended is not covered under the warranty.
- Before buying petrol from an unfamiliar station, first determine if the petrol 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 petrol. Switch to a petrol that you know contains less than the recommended amount of alcohol.

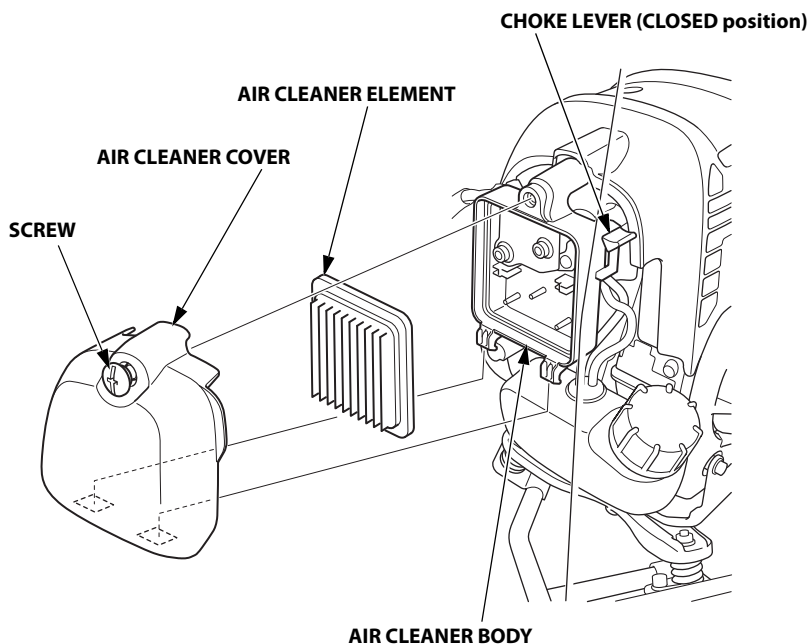
3. Check the air cleaner

CAUTION:

Never run the engine without the air cleaner; rapid engine wear will result.

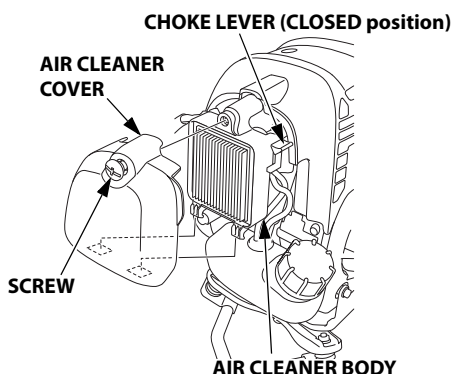
1. Move the choke lever to the CLOSED (upwards) position.
2. Loosen the screw and remove the air cleaner cover from the air cleaner body.
3. Check the air cleaner element for dirt or obstruction.
Clean the air cleaner element, if it is dirty (see page 48).
4. Reinstall the air cleaner element.
5. Reinstall the air cleaner cover and tighten the screw securely.

TORQUE: 2.3 N·m (0.2 kgf·m)

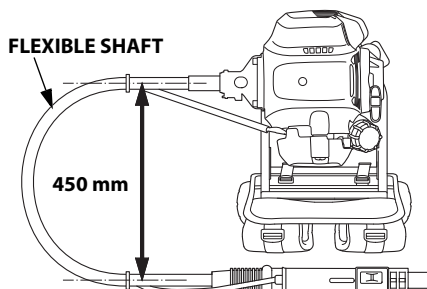


4. Check the throttle cable free play

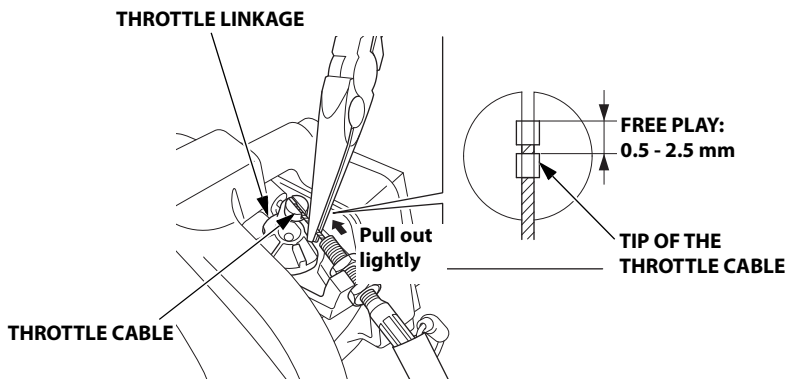
1. Move the choke lever to the CLOSED (upwards) position.
2. Loosen the screw and remove the air cleaner cover from the air cleaner body.



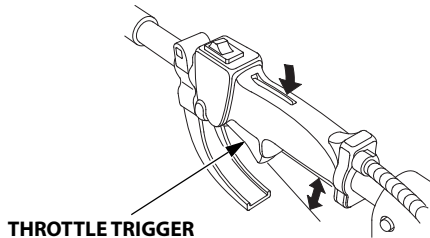
3. Set the grass trimmer so the flexible shaft makes "U" shape that is 450 mm wide.



4. While holding the grass trimmer in the position of the step 3, pull out the throttle cable lightly and check the extended length of the throttle cable at the end of the cable. It should be 0.5–2.5 mm. (Take care not to damage the throttle cable.) Adjust if the measurement exceeds the specification (see page 56).



5. Operate the throttle system several times and check it has the free play (i.e. throttle linkage does not move while operating the throttle trigger).
 - Holding the flexible shaft and gear case between the clutch case and flexible cutting means in line with each other, check the throttle trigger for function (see page 21).
 - Return the flexible shaft in the position of the step 3, and check there is the free play.
 - Check the throttle trigger operates smoothly and always spring back to the idle position.



If there is any abnormality, the throttle system must be serviced. Consult with your servicing dealer.

6. Reinstall the air cleaner cover and tighten the screw securely.

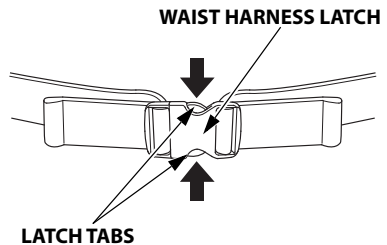
5. Check the waist harness latch

- Push the tabs of the waist harness latch with your fingers and check that the latch separates into the left and right parts.
- After separating the waist harness latch into the left and right parts, check the latch for cracks, breakage and other damage.

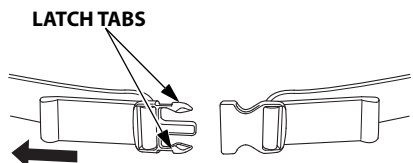
After check, latch the waist harness latch until it clicks. Before latching, be sure to check the surface side and reverse side of the latch not to twist the waist harness.

If the latch does not separate, it must be repaired. If the latch is damaged, it must be replaced. Consult with your servicing dealer.

Push the latch tab from both sides.



This will unbuckle and release the latch.



6. Inspect the cutting attachment

⚠ WARNING

For safety, check the cutting attachment before starting the engine. Operating the grass trimmer with the loose, cracked, or other damaged cutting attachment can cause a personal injury or equipment damage. Thrown cutting attachment by loose fastening can hit the operator or bystanders causing death or serious injury.

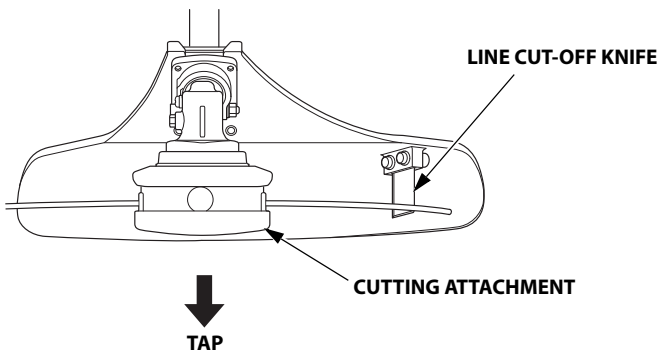
CAUTION:

Wear heavy gloves to protect your hands, when you turn a spool.

1. Stop the engine with the engine switch (start/stop switch) to the OFF position and remove the spark plug cap (see page 54).
2. Check the cutting attachment for looseness.
Tighten the cutting attachment securely if it is loose (see page 50).
If it is hard to do it yourself, consult your servicing dealer.
3. Check the nylon-line for fluffing.
If the nylon-line is damaged, have the nylon-line advance according to the following procedures.
Before feeding the nylon-line, check that the line cut-off knife is free from dust, dirt or other foreign material. Clean the line cut-off knife if necessary.

The line feeding action of the nylon-line of cutting attachment:

For this type of cutting attachment, the nylon-line advances when the cutting attachment is tapped against the ground while the engine is running. A cutting attachment guard with line cut-off knife must be used with it.

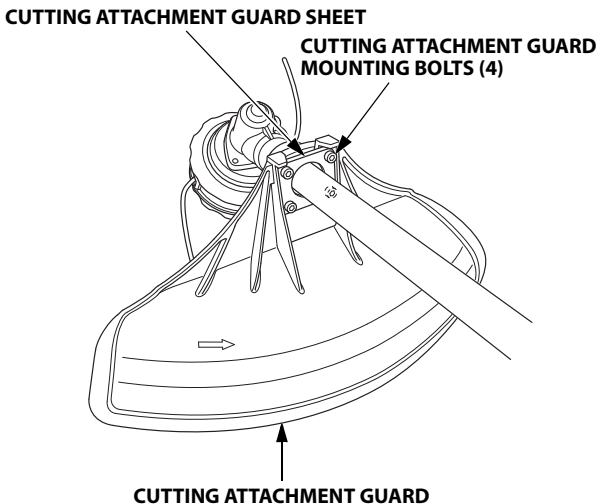


When nylon-line is not advanced even if the line feeding action is performed, the nylon-line might have run out. Replace the cutting attachment with a new one (see page 50).

7. Inspect the cutting attachment guard and cutting attachment guard sheet

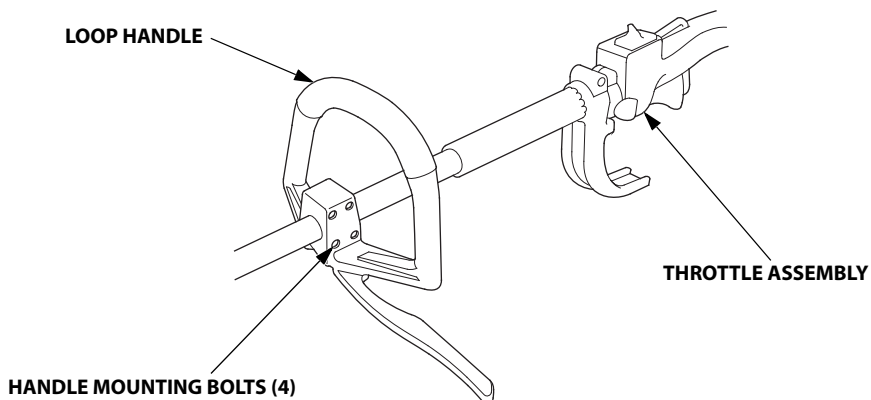
▲WARNING

- **Never use the grass trimmer without its cutting attachment guard. Stones or other foreign objects thrown outward by the wheeling cutting attachment or contact with the wheeling cutting attachment could cause personal injury or property damage.**
1. Stop the engine with the engine switch (start/stop switch) to the OFF position.
 2. Inspect the cutting attachment guard to be sure that they are correctly installed and are not damaged. If the cutting attachment guard is damaged, replace it before using the grass trimmer.
 3. Check the cutting attachment guard mounting bolts for looseness. Tighten the bolts securely, if necessary.
 4. Check the cutting attachment guard sheet is not abnormal such as, the bolts will come off easily, any crack or tear. If it is abnormal, consult your servicing dealer.
 5. Keep the cutting attachment guard position and direction same as below.



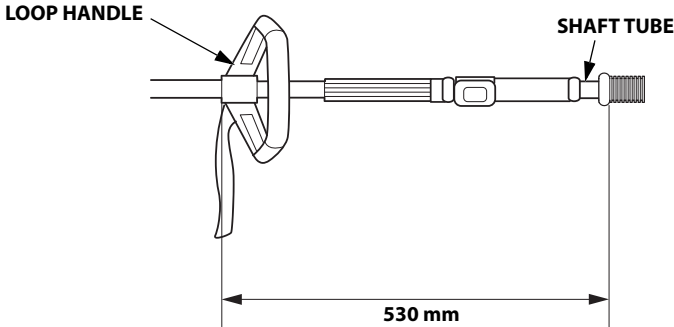
8. Check all bolts and nuts

1. Check each nut, bolt and screw for looseness. Tighten them securely if necessary.
2. Check the handle for loose mounting bolts, and tighten them securely if necessary.



9. Check the loop handle position and position adjustment

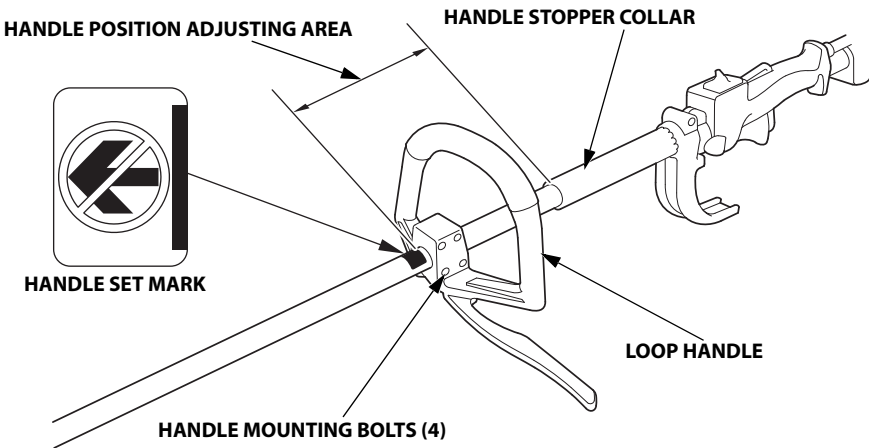
Check the position of the loop handle. The standard position is 530 mm from the end of the main shaft tube.



To adjust the position, loosen the four mounting bolts using the 4 mm hexagon wrench. move the loop handle within the handle set mark and handle stopper collar.

CAUTION:

For safety, the loop handle must not be installed beyond the handle set mark.



After adjusting the loop handle position, tighten the handle mounting bolts securely using the 4 mm hexagon wrench.

TORQUE: 2.5 N·m (0.26 kgf·m)

6. STARTING THE ENGINE

⚠ WARNING

- Exhaust gas contains poisonous carbon monoxide. Never run the engine in an enclosed area. Be sure to provide adequate ventilation.
- Start the engine in a place away from the people, pets, and surrounding buildings. Be sure there are no obstacles in the working area.

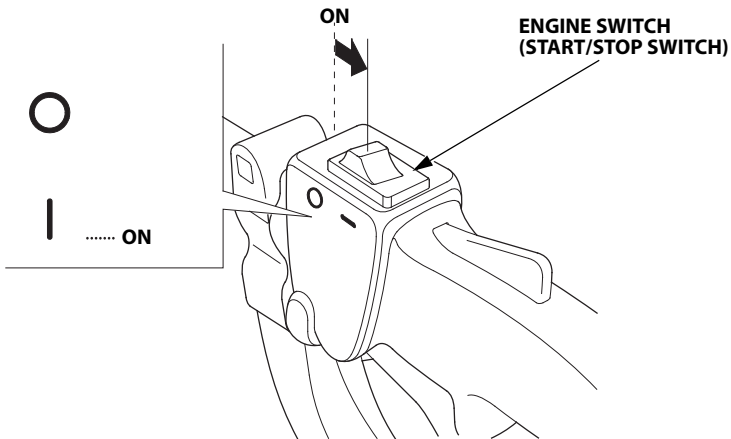
CAUTION:

Do not start the engine with the cutting attachment touched the ground or any obstruction. The grass trimmer can make unexpected movement causing injury in your legs, etc.

NOTE:

- Wear protective clothing and protective device. (see page 6)
- Place the grass trimmer in an area free from the obstacles, and be sure the cutting attachment is not in contact with the ground and other materials.

1. Turn the engine switch (start/stop switch) to the ON position.

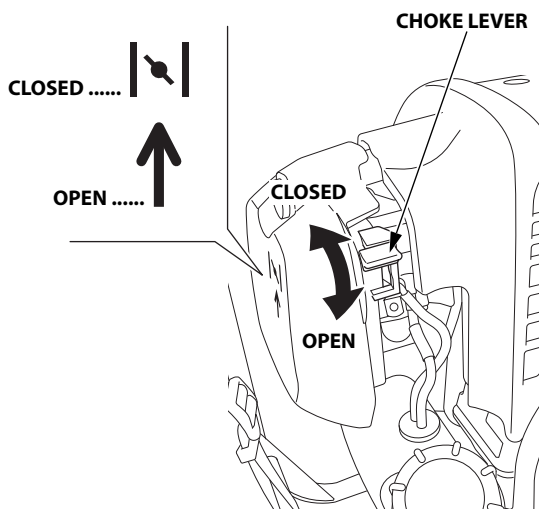


2. To start a cold engine, move the choke lever to the CLOSED position.

To restart warm engine, leave the choke lever in the OPEN position.

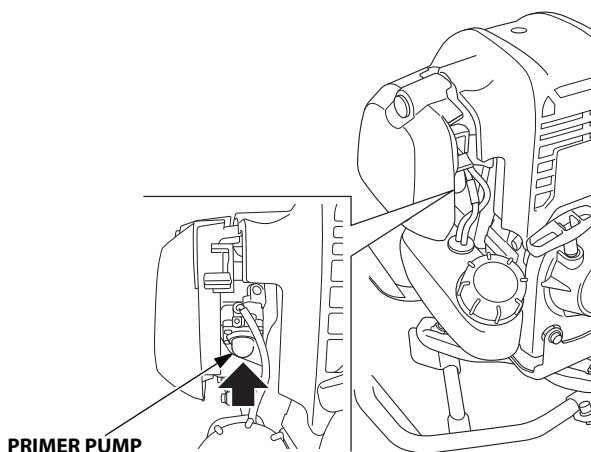
NOTE:

Do not use the choke if the engine is warm or the air temperature is high.



3. Press the primer pump several times until the primer pump is filled with fuel. Even if the primer pump is pressed too many times, the extra fuel will return to the fuel tank.

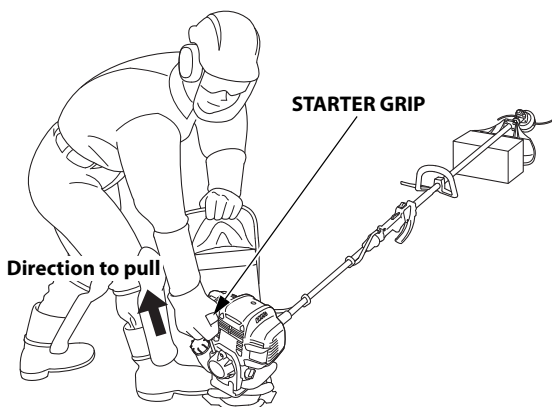
If the primer pump is not pressed enough, the engine may not start.



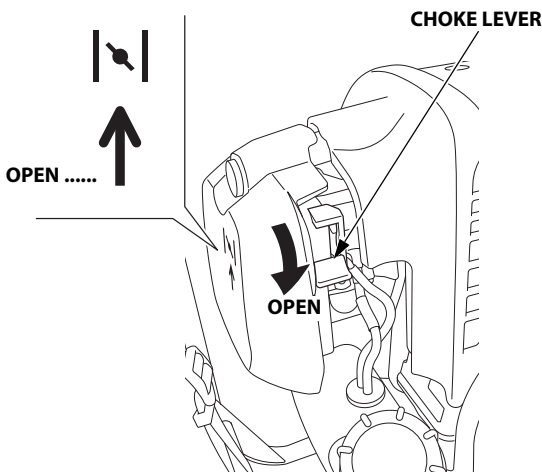
-
4. Pull the starter grip lightly until you feel resistance while stepping on the carrying frame with your foot and holding the carrying frame with your hand, then pull briskly in the direction of the arrow as shown below. Return the starter grip gently.

CAUTION:

- **Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.**
- **Damage may result if the starter grip is pulled while the engine is running.**



5. If the choke lever has been moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



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

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your grass trimmer at altitudes above 610 meters, have your 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 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 610 meters with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.

7. TRIMMING OPERATION

Read and understand the safety instructions on pages 3 to 14 before operating the grass trimmer.

If you notice any abnormal sound, smell, vibration, or other unusual signs, stop the engine immediately and consult your servicing dealer.

Shouldering the grass trimmer:

Before shouldering the grass trimmer, start the engine according to the proper procedures (see page 35) and warm up the engine. Be sure to check that the idling rotation becomes stable and the cutting attachment does not turn.

Shoulder the grass trimmer according to the procedures described below.

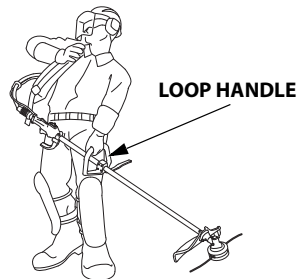
Note that the following procedures are for a righthand side use.

This grass trimmer is able to change engine mounting direction. Consult your authorized Honda dealer.

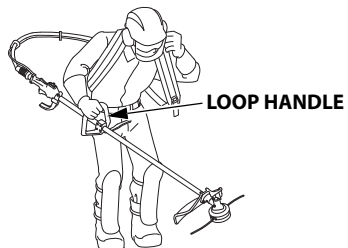
▲WARNING

- **When you shoulder the grass trimmer, be careful not to touch the throttle trigger without your intention. If the throttle trigger is pulled accidentally, the engine speed increases and the cutting attachment may start turning, which cause injury. When the wheeling cutting attachment touches the ground, the grass trimmer may go out of control causing injury.**
- **Always shoulder the backpack power unit when you use the grass trimmer. Using the grass trimmer without shouldering the backpack power unit leads losing your balance and falling down, may cause injury.**

1. Hold the loop handle with your left hand and put the right shoulder harness on your right shoulder with your right hand.

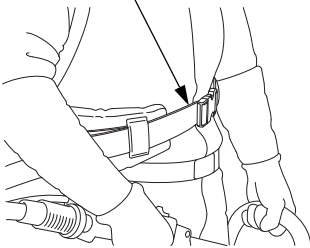


2. Hold the loop handle with your right hand and put the left shoulder harness on your left shoulder with your left hand.



3. After shouldering the backpack power unit, equip the waist harness.

WAIST HARNESS



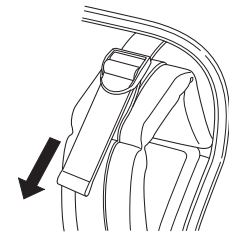
4. Adjust the length of the shoulder harness so that the backpack power unit pad is positioned on your back tightly and the unit weights on both your shoulders equally.

Adjust the shoulder harness at your shoulder and chest, then fasten the waist harness to stick the backpack power unit firmly to your body.



<ADJUSTMENT OF THE SHOULDER HARNESS>

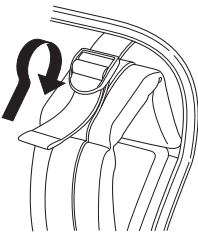
TO TIGHT
<Shoulder>



Pull toward lower

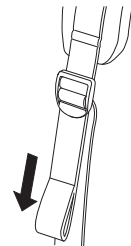
TO LOOSE

<Chest>



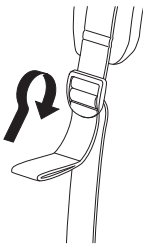
Push up the lower part

TO TIGHT



Pull toward lower

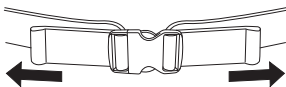
TO LOOSE



Push up the lower part

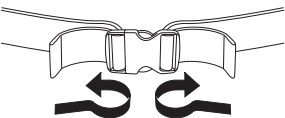
<ADJUSTMENT OF THE WAIST HARNESS>

TO TIGHT



Pull the belt from side to side

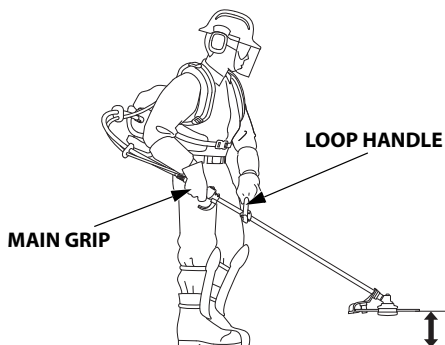
TO LOOSE



Push up the side belt

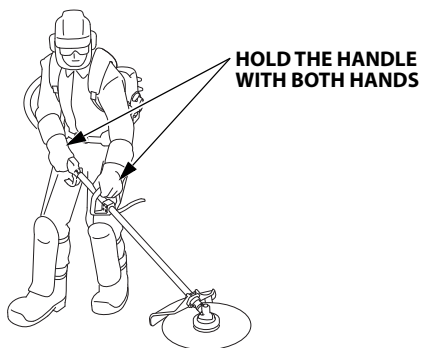
-
5. Hold the loop handle with your left hand and the main grip with your right hand while keeping the cutting attachment away from the ground.

The cutting attachment-to-ground clearance should be:
0–30 cm



Basic operation:

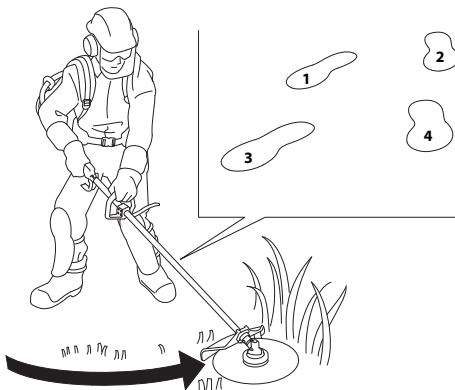
- Hold the grass trimmer in the correct position. Be sure to hold the handle with your both hands.



- Operate the grass trimmer not by using your arm force but by using your waist so that the cutting attachment swings in a level arc from right to left. Hold the grass trimmer so that you can shift your weight to the right leg then to the left leg safely and easily, and walk slowly with narrow strides.
- When operating the grass trimmer on a moderate slope, stand at the down side of the slope. The steep slope is slippery and you can lose your balance. Do not operate the grass trimmer on a steep slope.

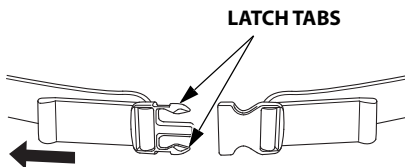
CAUTION:

Take good care of your step. Do not operate the grass trimmer in a place where is slippery, or you can lose your balance.



- Your grass trimmer is not designed to cut down the brush. Do not use your grass trimmer as a pruner hook.

In an emergency, push the latch tabs of the waist harness. Take off the shoulder harness and release the grass trimmer from your body.

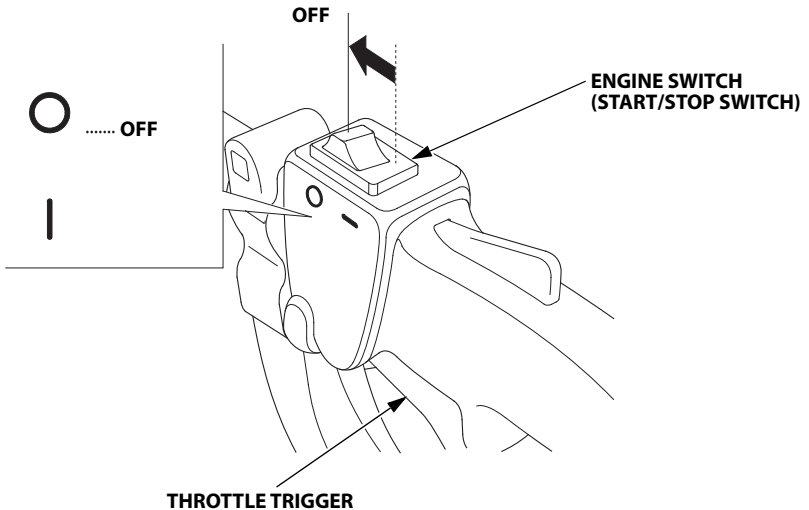


8. STOPPING THE ENGINE

1. Release the throttle trigger.
2. Turn the engine switch (start/stop switch) to the OFF position.

CAUTION:

Note that the cutting attachment keeps turning for a while by inertia after the engine is stopped.



NOTE:

Be sure that the engine is stopped and the cutting attachment stops turning before placing the grass trimmer on the ground.

9. MAINTENANCE

⚠ WARNING

- **Before performing any maintenance, place the grass trimmer on a level surface, stop the engine and make sure that the engine switch (start/stop switch) is in the OFF position to be certain the engine will not start accidentally.**
- **The grass trimmer should be serviced by an authorized Honda dealer unless the owner has proper tools and service data and feels he is mechanically qualified.**

CAUTION:

Use genuine Honda parts or their equivalent for maintenance or repair. Replacement parts which are not of equivalent quality may damage the grass trimmer.

Periodic inspection and adjustment of the Honda UMR450T is essential if high level performance is to be maintained. Regular maintenance will also help to extend service life. The required service intervals and the kind of maintenance to be performed are described in chart on the following page 45.

For longer service and efficiency, keep the underside of the cutting attachment guard clean and free of accumulated grass clippings by washing it down with a hose after each use and/or cleaning it with a wire brush and scraper.

Maintenance schedule

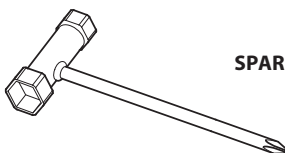
REGULAR SERVICE PERIOD (3) Perform at every indicated month or operating hour interval, whichever comes first.		Each use	First month or 10 hrs.	Every 3 months or 25 hrs.	Every 6 months or 50 hrs.	Every year or 100 hrs.	Every 2 years or 300 hrs.	Refer to page
ITEM								
Engine oil	Check level	o (5)						23
	Change		o		o			47
Air cleaner	Check	o (5)						28
	Clean			o (1)				48
	Replace					o		48
Spark plug	Check-adjust					o		54
	Replace						o	
Throttle cable	Check	o						29, 56
Cutting attachment	Check	o						31, 50
(Replace if necessary)								
Cutting attachment guard	Check	o						32, 52
Engine cooling fins	Check-clean				o			63
Spark arrester and exhaust filter	Clean					o		67
Nuts, bolts, fasteners	Check	o						33
(Retighten if necessary)								
Cutting attachment guard	Check	o						32
(Replace if necessary) (2)								
Flexible shaft	Check-grease (4)		Every year or 30 hrs.					58
Waist harness	Check	o						30
Fuel tank	Clean					o		64
Fuel filter	Check					o		64
Clutch shoe and drum	Check (4)				o (2)			–
Gear case (Angle transmission)	Grease		Every year or 30 hrs.					66
Idling speed	Check-adjust					o (2)		–
Valve clearance	Check-adjust					o (2)		–
Combustion chamber	Clean		Every 2 years or every 300 hrs. (2)					–
Fuel tubes	Check		Every year or every 100 hrs. (Replace if necessary.) (2)					66

NOTE:

- (1) Clean more frequently when used in dusty areas.
- (2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures.
- (3) Log hours of operation to determine proper maintenance intervals.
- (4) These consumption parts should be replaced even a short period if it is necessary.
- (5) Clean or replace when it looks so dirty.

Tool kit

The tools supplied are necessary for performing some periodic maintenance, simple adjustments and repairs.



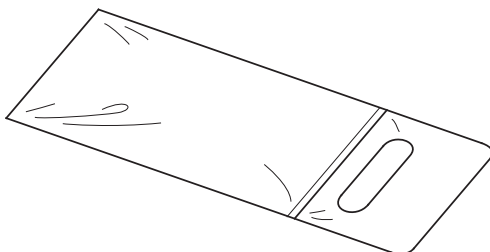
SPARK PLUG WRENCH



8 × 10 mm WRENCH



**5 mm HEXAGON WRENCH
4 mm HEXAGON WRENCH**



TOOL BAG

1. Engine oil change

CAUTION:

If the engine has been running, the engine, muffler and the engine oil are very hot and they remain hot for a while after stopping the engine. To protect you from burn, wait until they cool down before starting the oil change.

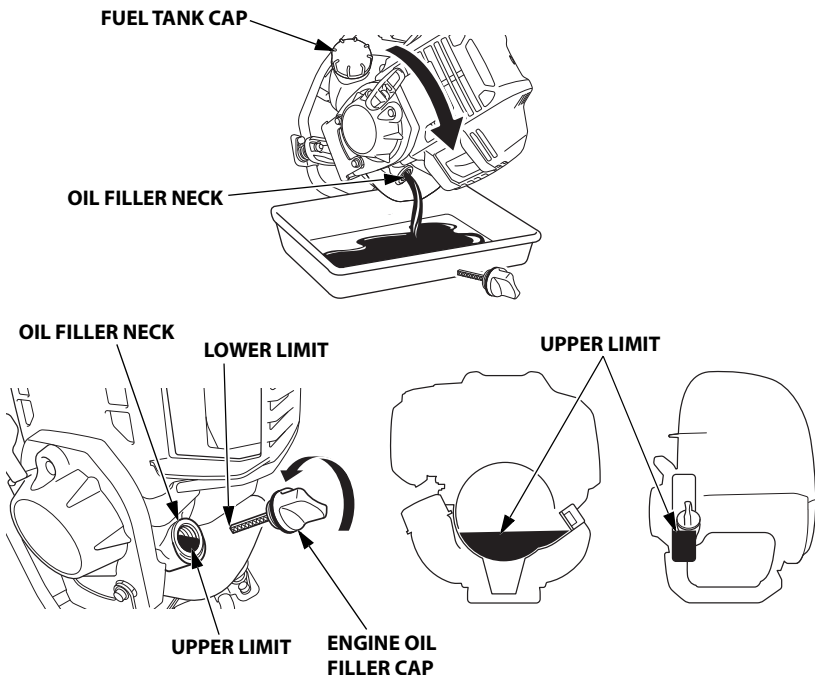
NOTE:

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

1. Check the fuel tank cap is tightened.
2. Remove the oil filler cap and drain the oil into the oil container by tipping the engine toward the oil filler neck.
3. Refill with the recommended oil (see page 24) and check the oil level (see page 23).
4. Install the oil filler cap.

ENGINE OIL CAPACITY: 0.13 L

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 reclamation. Do not throw it in the trash or pour it on the ground.

2. Air cleaner service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the grass trimmer in extremely dusty areas.

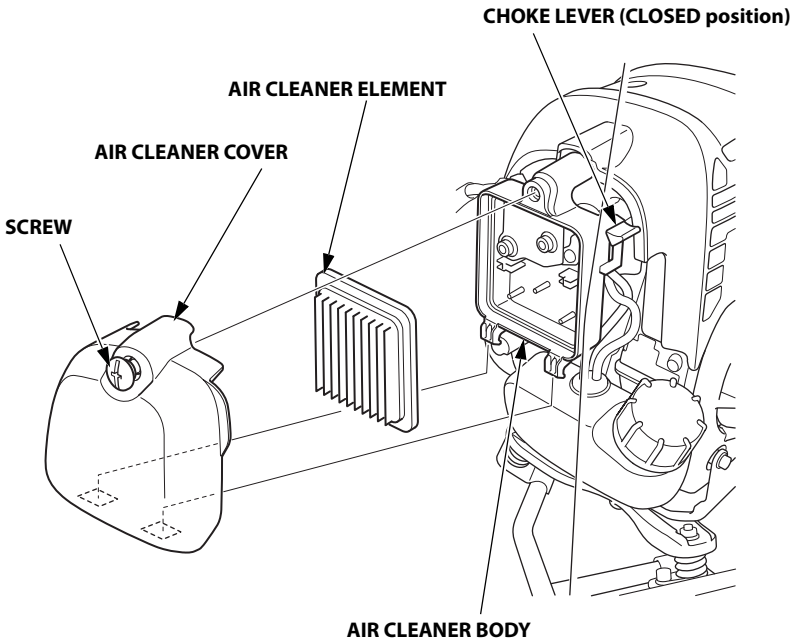
▲WARNING

Never use petrol or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

CAUTION:

Never run the engine without the air cleaner. Rapid engine wear will result.

1. Move the choke lever to the CLOSED (upwards) position.
2. Loosen the screw and remove the air cleaner cover from the air cleaner body.

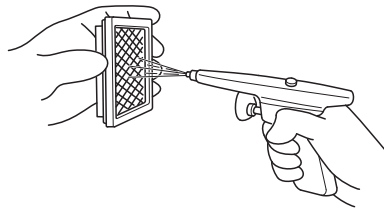
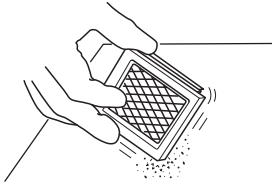


-
3. Inspect the air filter element. Replace it if it is damaged.

Always replace the paper air filter element at the scheduled interval (see page 45).

4. Clean the air filter element if it is to be reused.

Tap the paper air filter element several times on a hard surface to remove dirt, or blow compressed air [not exceeding 200 kPa (2.0 kgf/cm²)] through the filter element from the air cleaner body side. Never try to brush off dirt; brushing will force dirt into the fibers. Replace the paper air filter element if it is excessively dirty.



5. Reinstall the air cleaner element.

6. Reinstall the air cleaner cover and tighten the screw securely.

TORQUE: 2.3 N·m (0.2 kgf·m)

3. Cutting attachment replacement

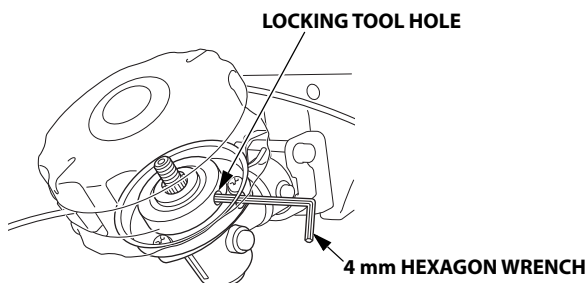
▲WARNING

- To avoid severe personal injury, make sure that the engine switch (start/stop switch) is in the OFF position to prevent accidental starting.
- Use a genuine Honda replacement cutting attachment or its equivalent.

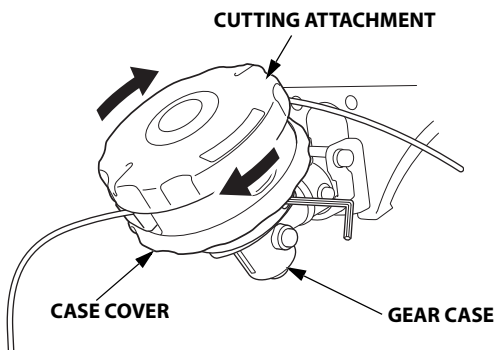
CAUTION:

Wear heavy gloves to protect your hands when replacing the cutting attachment.

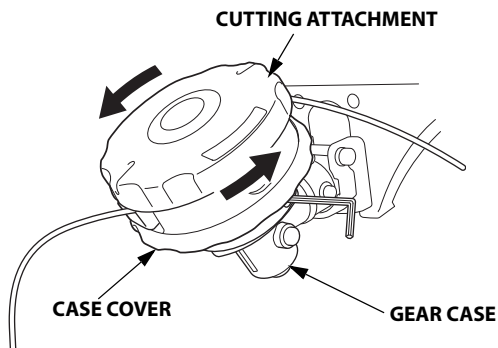
1. Stop the engine and remove the spark plug cap (see page 54).
2. Turn the cutting attachment until you feel the 4 mm hexagon wrench into the locking tool hole. Make sure the cutting attachment does not turn.



3. Turn the cutting attachment clockwise by holding the case cover to remove it from the gear case. Replace it with new one.



-
4. Turn the cutting attachment counterclockwise by holding the case cover to install it to the gear case.



4. Cutting attachment guard replacement

⚠ WARNING

Install the cutting attachment guard in the proper position securely to protect you from the debris that are thrown from a wheeling cutting attachment.

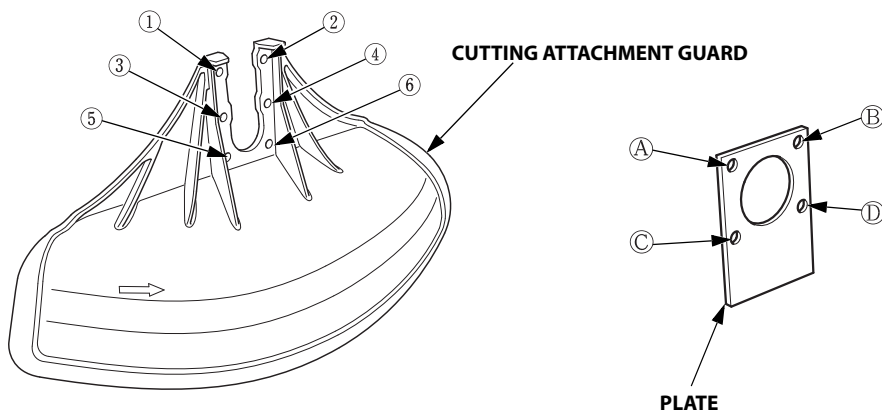
CAUTION:

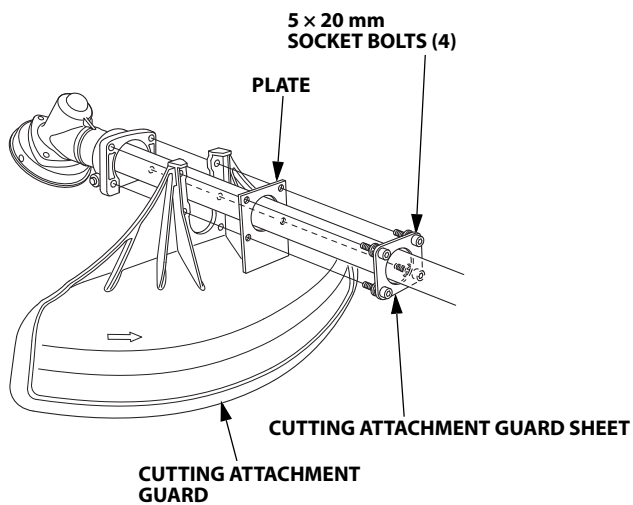
Wear heavy gloves to protect your hands, when working around the cutting attachment.

Installation of cutting attachment guard

1. Place the plate holes ① and ② pointing up.
2. Put together the plate holes and the cutting attachment guard holes ①, ②, ③ and ④, and fix them by using 5×20 mm socket bolts. Holes ⑤ and ⑥ are not used.
3. Tighten the bolts securely.

TORQUE: 5.2 N·m (0.53 kgf·m)





5. Spark plug service

Recommended spark plug: CMR5H (NGK)

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

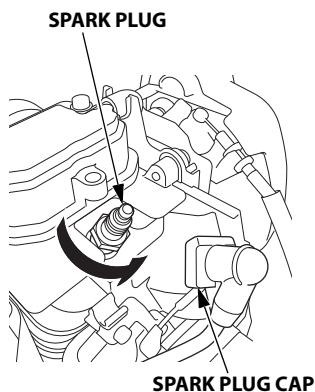
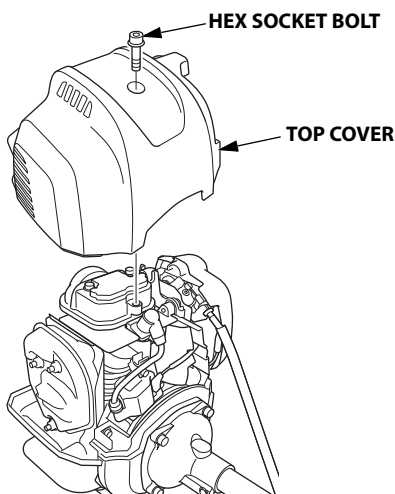
▲WARNING

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

CAUTION:

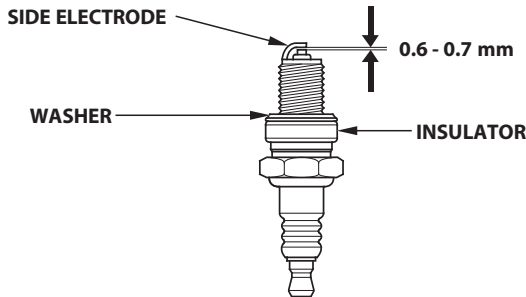
Never use a spark plug of incorrect heat range.

1. Loosen the hex socket bolt with the 4 mm hexagon wrench, then remove the top cover.
2. Remove the spark plug cap and use the proper size spark plug wrench to remove the spark plug.



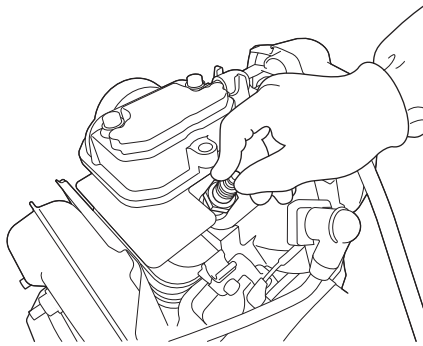
3. Visually inspect the spark plug. Discard it if there is apparent wear or the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.

4. Measure the plug gap with a feeler gauge.
Correct as necessary by carefully bending the side electrode.
The gap should be: 0.6 – 0.7 mm



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

TORQUE: 11.8 N·m (1.2 kgf·m)



NOTE:

If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 – 1/4 turn after the spark plug seats to compress the washer.

CAUTION:

The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.

7. Attach the spark plug cap.
8. Install the top cover, and tighten the hex socket bolt with the 4 mm hexagon wrench securely.

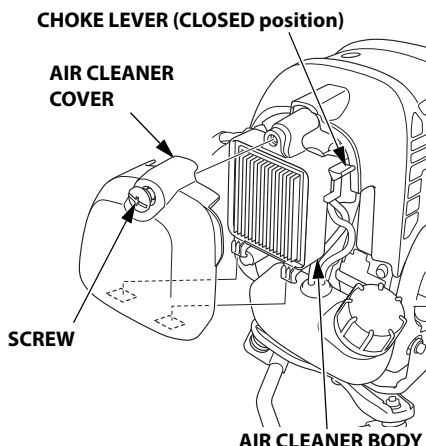
TORQUE: 5.0 N·m (0.5 kgf·m)

6. Throttle cable check and adjustment

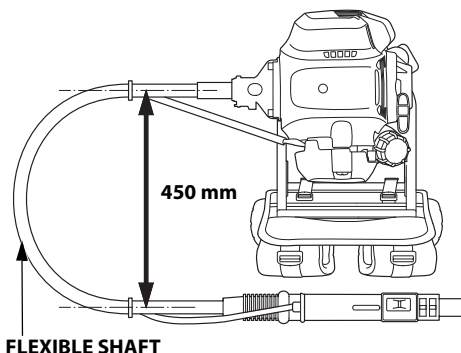
Adjust the throttle cable free play properly.

Adjustment:

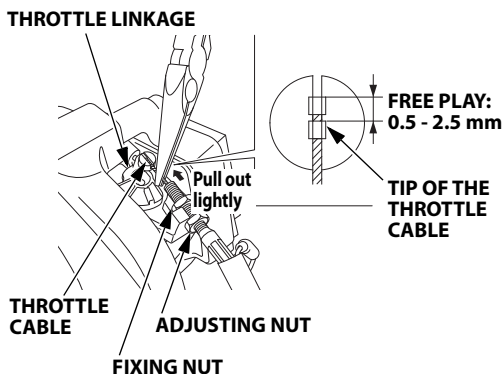
1. Move the choke lever to the CLOSED (upwards) position.
2. Loosen the screw and remove the air cleaner cover from the air cleaner body.



3. Set the grass trimmer so the flexible shaft makes "U" shape that is 450 mm wide.
4. Loosen the throttle cable fixing nut.

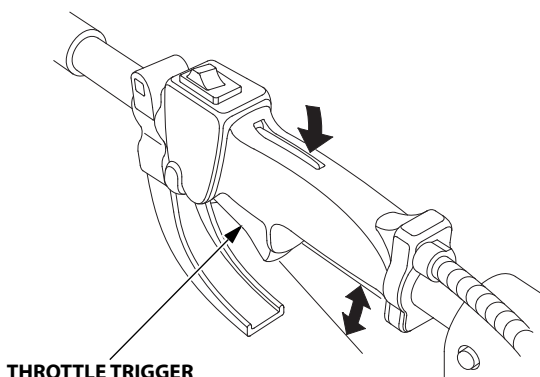


5. While holding the grass trimmer in the position of the step 3, pull out the throttle cable lightly and turn the adjusting nut to adjust the extended length of the throttle cable at the end of the cable to 0.5 – 2.5 mm. (Take care not to damage the throttle cable.)



-
6. Tighten the throttle cable fixing nut securely.
 7. Operate the throttle system several times and check it has the free play (i.e. throttle linkage does not move while operating the throttle trigger).
 - Holding the flexible shaft and gear case between the clutch case and cutting attachment in line with each other, check the throttle trigger for function (see page 21).
 - Return the flexible shaft in the position of the step 3, and check there is the free play.

After adjustment, check the throttle trigger for smooth operation. Consult your servicing dealer if necessary.



8. Reinstall the air cleaner cover and tighten the screw securely.

CAUTION:

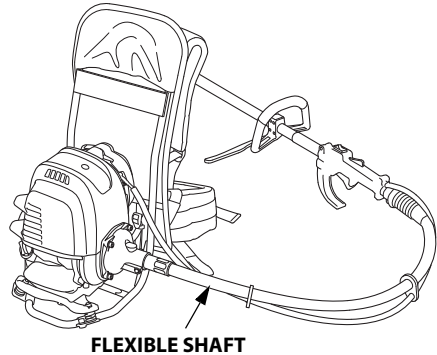
- **After removing the air cleaner cover, reinstall the air cleaner cover securely.**
Failure to tighten the cover securely may cause the cover to come out of position by vibration or some sort of engine malfunction.
- **Operating the engine without the air cleaner or improperly installed air cleaner will allow dirt to enter the inside of the engine, causing adverse effect to the engine.**

7. Flexible shaft inspection/lubrication

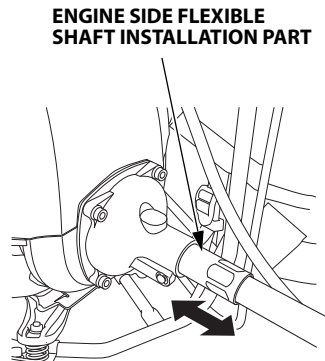
The flexible shaft is very fragile. Inspect and lubricate the flexible shaft periodically to keep it in good condition and for long service life.

Outer inspection:

- Check the outer surface of flexible shaft for cut, cracks, shave, discoloration, deformation and other damage. The flexible shaft must be replaced if it is damaged, discolored or deformed. Consult with your servicing dealer.

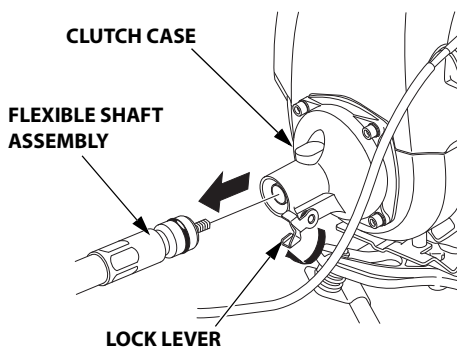


- Move the engine side flexible shaft installation part back and forth and check that the travel is 5 mm or below. The flexible shaft must be serviced if the travel exceeds 5 mm. Consult with your servicing dealer.

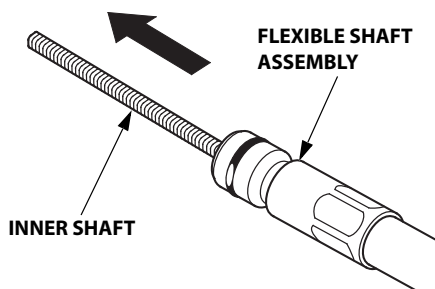


Inner shaft inspection/lubrication:

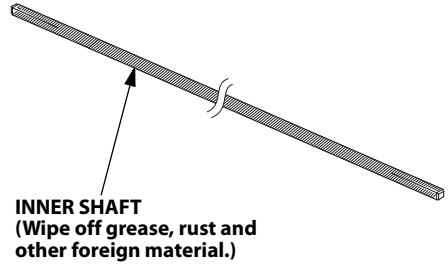
1. Set the flexible shaft assembly straight, unlock the lock lever and remove the flexible shaft assembly from the engine side.



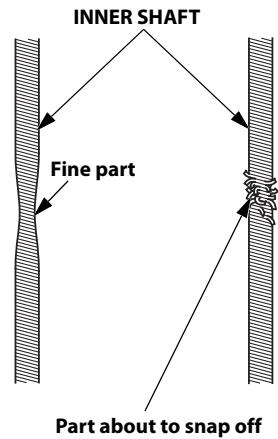
2. Remove the inner shaft from the flexible shaft assembly.



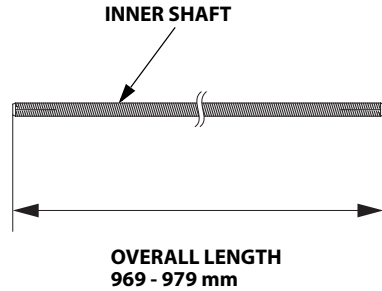
3. Wipe off grease, rust and other foreign material from the inner shaft using a shop towel.



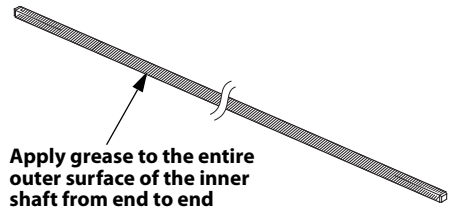
4. Check the inner shaft for a part where has become fine or where is about to snap off. Replace the inner shaft with a new one if necessary. Consult with your servicing dealer for replacement.



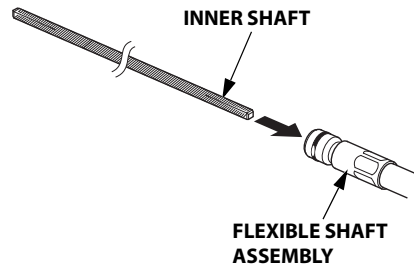
5. After checking that the inner shaft is free from a part where has become fine or where is about to snap off, measure the overall length of the inner shaft and check that the measurement is within 969 – 979 mm. If the measurement is out of the specification, replace the inner shaft with a new one. Consult with your servicing dealer for replacement. Overall length of new inner shaft: 969 mm



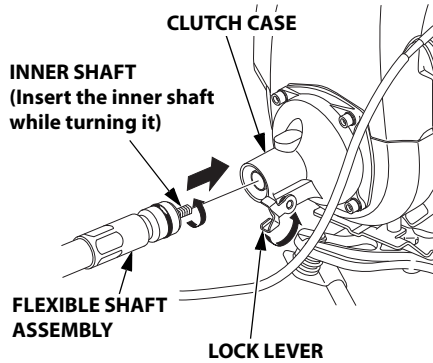
6. Apply grease to the entire outer surface of the inner shaft evenly from end to end.



7. Insert the inner shaft into the flexible shaft assembly to assemble.



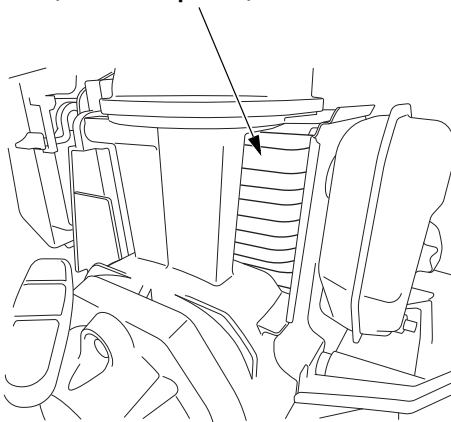
8. While turning the inner shaft with your hand, push it in and check that the cutting attachment turns.
9. While aligning the inner shaft with the mating part and unlocking the lock lever, insert the flexible shaft assembly into the engine side clutch case. Insert the flexible shaft assembly until the lock lever clicks.
- After lubricating and/or inspecting the flexible shaft, start the engine (see page 35) and check that the cutting attachment turns with no problem.
If there is any abnormality, consult with your servicing dealer.



8. Engine cooling fin inspection

Inspect the cooling fin visually through the cover. If there are dry grass, leaves and mud clogged, consult your servicing dealer for cleaning it.

COOLING FINS
(Inside the top cover)



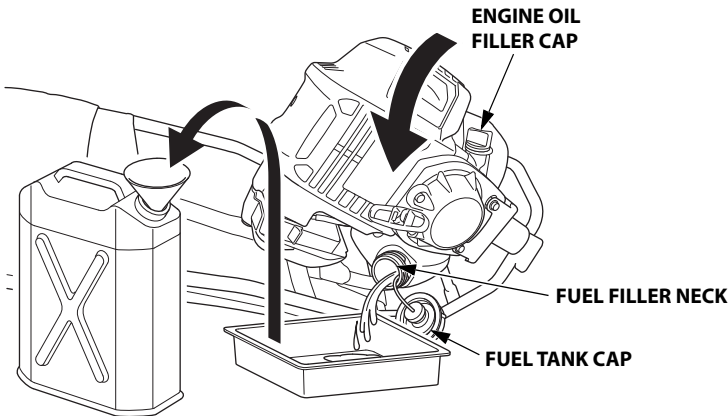
9. Fuel filter and fuel tank cleaning

Note that the clogged fuel filter can cause poor engine performance. Water and dust, dirt or foreign material in the fuel tank cause a poor engine performance.

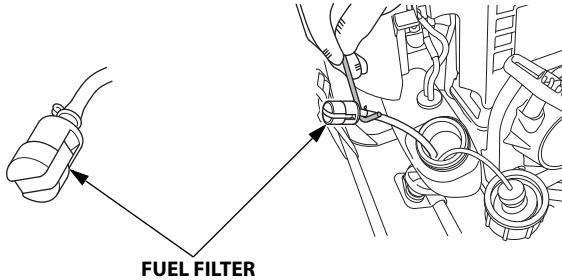
⚠ WARNING

Petrol is extremely flammable and is explosive under certain conditions. You can be burned or seriously injured when handling fuel. Observe the following when servicing the fuel filter.

- **Stop the engine.**
 - **Inspect in a well-ventilated area.**
 - **Keep heat, sparks, and flame away. Do not smoke.**
 - **Do not spill the petrol. If you spilled the petrol, wipe it up immediately and dispose of the cloth or shop towel you wiped the spilled petrol in a manner that is compatible with the environment.**
1. Be sure that the engine oil filler cap is tightened securely.
 2. Remove the fuel tank cap and drain the petrol into the container by tipping the engine toward the fuel filler neck.



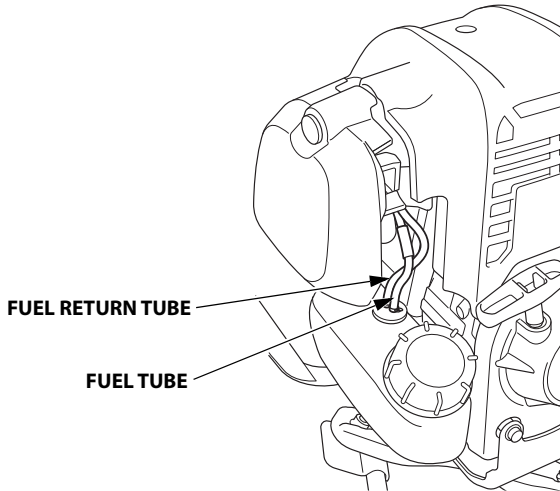
-
3. Pull out the fuel filter with the mechanic's wire from the fuel filler neck gently.
 4. Check the fuel filter for contamination. If the fuel filter is dirty, wash it gently with nonflammable or high flash point solvent. If the fuel filter is excessively dirty, replace it.



5. Remove water and dirt stood in the fuel tank by rinsing the inside of the fuel tank with nonflammable or high flash point solvent.
6. Reinstall the fuel filter into the fuel tank and tighten the fuel tank cap securely.

10. Fuel tube check

Check fuel tube and fuel return tube for cracks and any other deterioration and confirm that there is no leakage of fuel on these tubes. If you notice any abnormal symptoms on the these tubes, contact your servicing dealer.

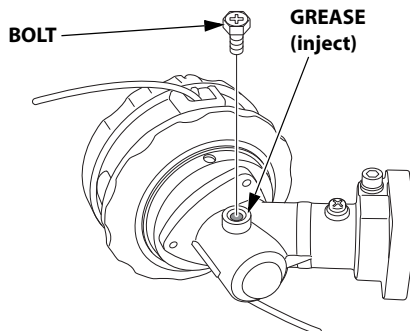


11. Grease of gear case (angle transmission)

1. Remove the bolt of gear case.
2. Inject the grease 9 - 11 g or full at the gear case.
3. Install the bolt and tighten it securely.

TORQUE: 5.0 N·m (0.5 kgf·m)

Recommended grease: Lithium Complex Moly, NLGI grade2



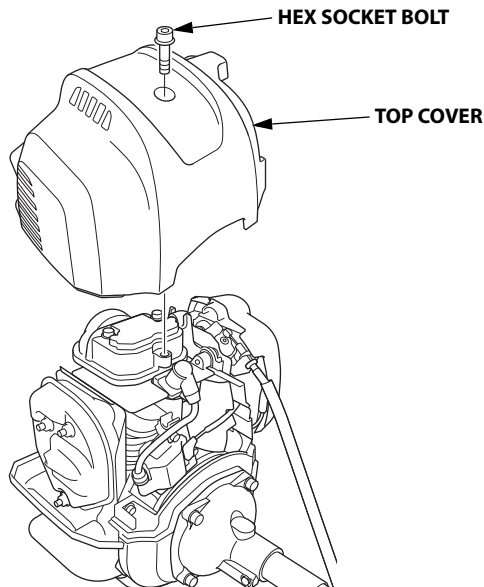
12. Spark arrester

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

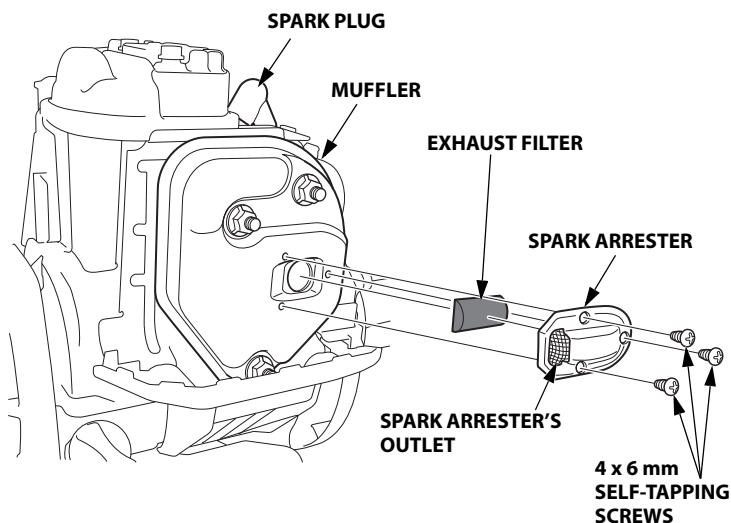
If the engine has been running, the muffler will be hot. Allow it to cool before servicing the spark arrester.

Removal

1. Loosen the hex socket bolt with the 4 mm hexagon wrench, then remove the top cover.

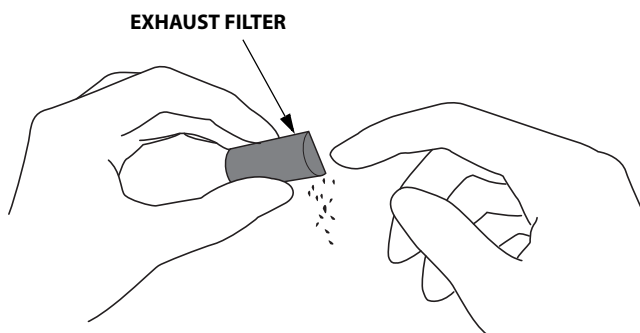


2. Remove the 4 x 6 mm self-tapping screws from the spark arrester, and remove the spark arrester and exhaust filter from the muffler.



Exhaust filter cleaning & inspection

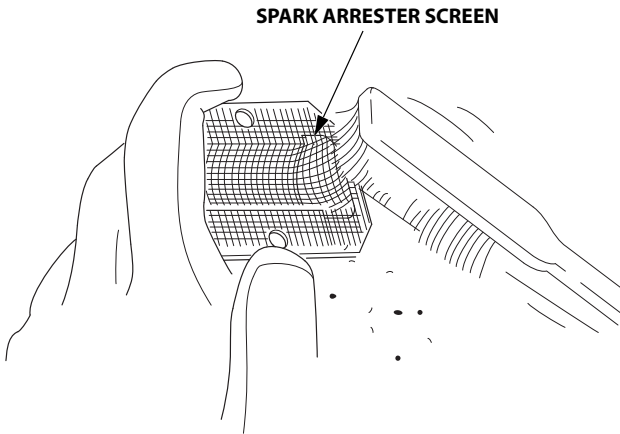
Pinch the exhaust filter, and strike it lightly with a finger, to remove carbon deposits. Be careful not to strike it too hard. The exhaust filter must be free of breaks and holes. If it is damaged or fouled excessively, replaced it.



Cleaning & Inspection

1. Use a brush to remove carbon deposits from the spark arrester screen. Be careful to avoid damaging the screen.

The spark arrester must be free of breaks and holes. Replace the spark arrester if it is damaged.



2. Install the exhaust filter and spark arrester in the reverse order of disassembly.

When you install the spark arrester, the spark arrester's outlet must point the opposite side of the spark plug.

3. Install the top cover, and tighten the hex socket bolt securely with the 4 mm hexagon wrench.

TORQUE: 5.0 N·m (0.5 kgf·m, 3.7 lbf·ft)

10. TRANSPORTING

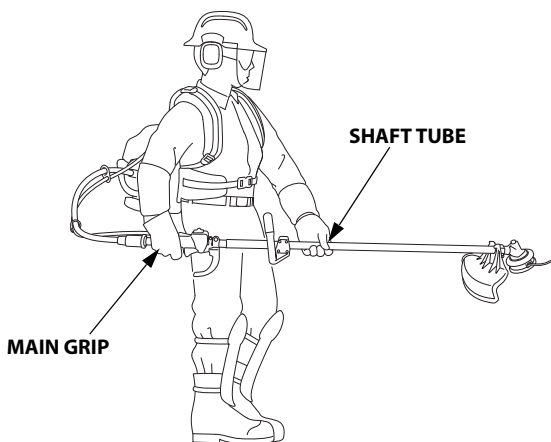
Always turn the engine switch (start/stop switch) to the OFF position, Make sure the fuel tank cap is securely tightened and the engine is cool.

Take care not to drop or strike the grass trimmer when transporting.

Do not place heavy objects on the grass trimmer.

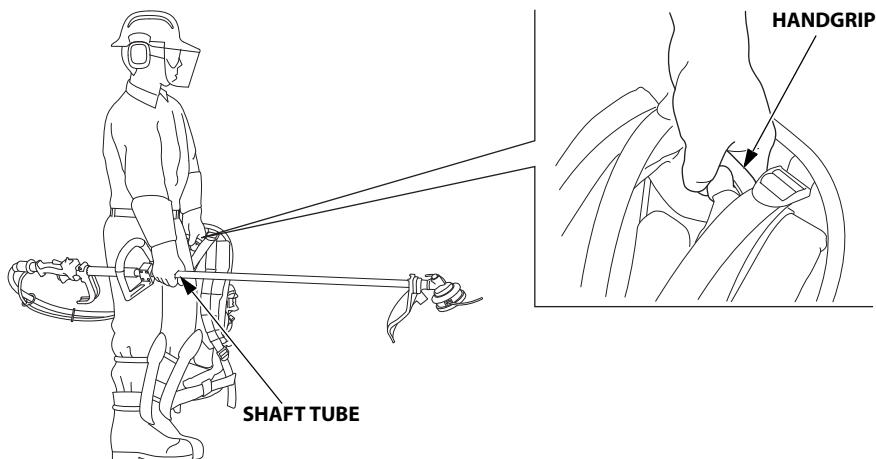
Carrying the grass trimmer by shouldering the backpack power unit:

Shoulder the backpack power unit and fasten the waist harness latch. Hold the shaft tube with your left hand and the main grip with your right hand. Keeping the cutting attachment away from the ground.



Carrying the grass trimmer without shouldering the backpack power unit:

Hold the handgrip of backpack power unit with your left hand. With your right hand, hold the shaft tube to carry the grass trimmer with good balance.



Transport the grass trimmer by vehicle:

Secure the grass trimmer in level and make sure that it will not move or fall down.

11. STORAGE

Proper storage preparation is essential for keeping your grass trimmer trouble free and looking good. The following steps will help to keep rust and corrosion from impairing your grass trimmer.

CAUTION:

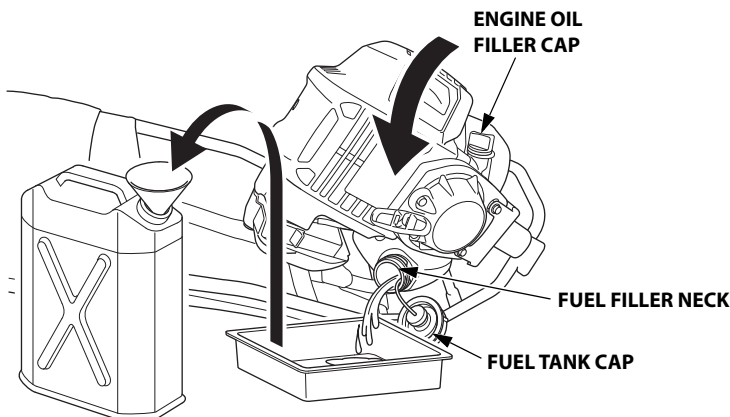
- **If the grass trimmer has been running, the engine will be very hot; allow it to cool before proceeding.**
- **Place the grass trimmer on a level surface and make sure that the engine switch (start/stop switch) is in the OFF position to be certain the engine will not start accidentally.**
- **Store the grass trimmer with its flexible shaft kept as straight as possible to prevent damage to it.**

1. Clean all exterior surfaces, touch up any damaged paint, and coat other areas that may rust with a light film of oil.
2. Drain the fuel.

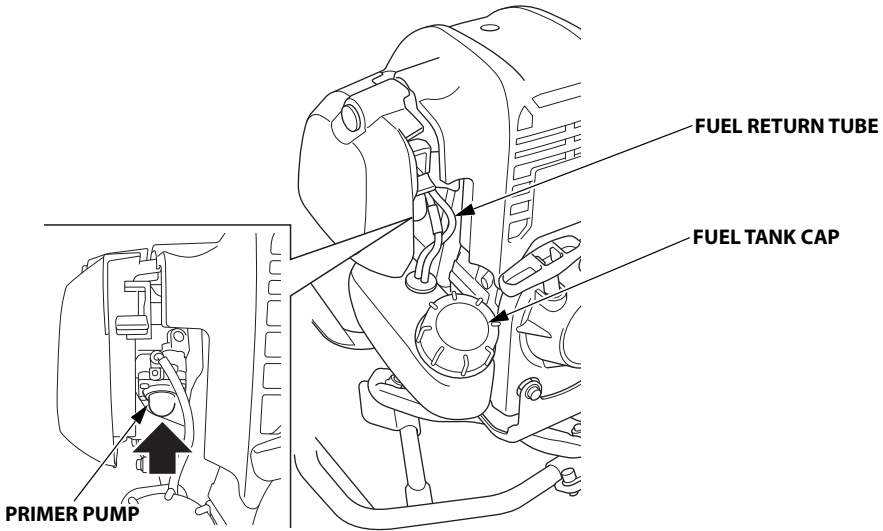
▲WARNING

Petrol is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

- a. Be sure that the engine oil filler cap is tightened securely.
- b. Remove the fuel tank cap and drain the fuel into the container by tipping the engine toward the fuel filler neck.



- c. Press the primer pump several times until all fuel left in the fuel return tube is returned into the fuel tank.



- d. Tip the engine toward the fuel filler neck again to drain the fuel left in the fuel tank into the container.
- e. Tighten the fuel tank cap securely after draining the fuel completely.

NOTE:

- Deteriorated petrol may cause unexpected damage to your engine.
- Petrol should be stored in a clean container used exclusively for petrol.
- Petrol should be stored in a cool and well ventilated place.
- Do not store or transport petrol in PET [poly (ethylene terephthalate)] bottles.

3. Let the engine run until it stops because lack of fuel.

CAUTION:

The engine will be very hot; allow it to cool before proceeding.





4. Change the engine oil (see page 47).
5. Clean the air cleaner (see page 48).
6. Remove the top cover and remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder.
7. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug. Pull the starter grip slowly until resistance is felt. Reinstall the top cover.
8. Cover the grass trimmer to keep out dust.

12. REPLACEMENT PARTS

When you need those parts, contact your servicing dealer for purchase.

⚠WARNING

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

	Item	Flexible cutting means
	Parts No.	72560-V0G-601
	Item	Standard cutting attachment guard for cutting means
	Parts No.	76200-VK9-L01
	Item	Air cleaner element
	Parts No.	17211-Z3F-000
	Item	Spark plug
	Parts No.	31915-Z0H-003

Illustrations in this table are visual references. Appearance may be different from the actual product.

Engine will not start

Possible Cause	Correction
Choke open.	Move the choke lever to the CLOSED position unless the engine is warm.
Engine switch (start/stop switch) is in the OFF position.	Turn the engine switch (start/stop switch) to the ON position.
Out of fuel.	Refuel (see page 25).
Fuel not reaching carburetor.	Check and press the primer pump several times (see page 36).
Bad fuel; engine stored without treating or draining petrol, or refueled with bad petrol.	Drain bad fuel (see page 72). Refuel with fresh petrol (see page 25).
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (see page 54).
Spark plug wet with fuel (flooded engine).	Allow the spark plug to dry. After drying, install the spark plug (see page 54) and start the engine.
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Consult your servicing dealer.

Engine lacks power

Possible Cause	Correction
Air cleaner element restricted.	Clean or replace the air cleaner element (see page 48).
Bad fuel; engine stored without treating or draining petrol, or refueled with bad petrol.	Drain bad fuel (see page 72). Refuel with fresh petrol (see page 25).
Fuel filter restricted, carburetor malfunction, ignition malfunction, valves stuck, etc.	Consult your servicing dealer.

When an abnormal vibration occurs during operation, immediately turn off the engine and check the cutting attachment is properly installed and tightened securely, and inspect it for damage. If necessary, replace it (see pages 50 and 51).

14. SPECIFICATIONS

MODEL	UMR450T
Description code	HART

Frame

TYPE		LTUT
Handle type		Loop
Clutch type		Centrifugal clutch
Cutter	Tool	Flexible cutting means
	Type	Tap and Go
	O.D.	440 mm
Overall length		2,785 mm
Overall width		380 mm
Overall height		570 mm
Machine mass (with empty tanks, without cutting attachment, cutting attachment guard and harness) (EN ISO 11806-1:2022)		10.2 kg
Maximum rotational frequency of the spindle		9,000 rpm

NOTE:

Specifications may vary according to the types, and are subject to change without notice.

Engine

MODEL	UMR450T
Engine model	GX50T
Engine description code	GCCFT
Engine type	4-stroke, overhead cam, 1 cylinder
Displacement	47.9 cm ³
Bore and Stroke	43.0 × 33.0 mm
Engine Net power (in accordance with SAE J1349*)	1.47 kW/7,000 rpm
Engine max. Net torque (in accordance with SAE J1349*)	2.2 N·m (0.22 kgf·m)/5,000 rpm
Idling speed	3,100 ± 200 rpm
Cooling system	Forced air
Ignition system	Transistor magneto
Oil capacity	0.13 L
Fuel tank capacity	0.63 L
Spark plug	CMR5H (NGK)

* 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 7,000 rpm (Engine Net Power) and at 5,000 rpm (Engine Max. Net Torque). 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 may vary according to the types, and are subject to change without notice.

Noise

MODEL	UMR450T
Cutter	Flexible cutting means
Guaranteed sound power level* 2000/14/EC	108 dB (A)
Permissible level	105 dB (A)

* In accordance with Australian New South Wales Standard (Protection of the environment operations (noise control) regulation 2017)

NOTE:
Specifications may vary according to the types, and are subject to change without notice.

CONSUMER INFORMATION

Australia distributor information

NAME OF FIRM (COMPANY)	ADDRESS	TEL:
Honda Australia Motorcycle and Power Equipment Pty. Ltd.	LEVEL 4, 6 GLADSTONE ST, MOONEE PONDS, VICTORIA 3039, AUSTRALIA	Tel. : 1300 559 846

MEMO

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HONDA

UMR450T
4MV0G600
00X4M-V0G-6000

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