

HONDA

POWER PRODUCTS

UMS425U OWNER'S MANUAL

Thank you for purchasing a Honda line trimmer.

This manual covers the operation and maintenance of Model UMS425U.

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This manual should be considered a permanent part of the trimmer unit, 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 trimmer unit consult an authorised Honda dealer.

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

! WARNING Operating a line 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 unit. Failure to do so could result in personal injury or equipment damage.

- **The illustrations may vary according to the type.**

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Honda Australia Motorcycle and Power Equipment Pty. Ltd.
ABN 96 006 662 862 (trading as Honda MPE).

Safety Instructions

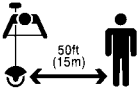
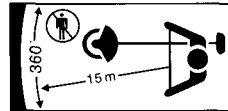
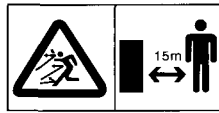
! WARNING

To ensure safe operation

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



- The Honda UMS425U line trimmer is designed to cut grass/weeds. It will provide safe and dependable service if operated according to Instructions. Read and understand the Owner's Manual before operating the trimmer unit. Failure to do so could result in personal injury or equipment damage.



- Keep all persons and pets away from the trimmer operating area. To prevent accidental contact with the cutting attachment (nylon-line cutting head) or thrown objects from the cutting attachment, keep people and pets at least 15m (50ft.) away from the grass/weed trimmer when it is in use.



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

Safety Instructions

! WARNING

To ensure safe operation

Operator Responsibility

- Any part of the trimmer is a potential source of danger if the trimmer is used in abnormal conditions or if maintenance is not done correctly.
- Read the owner's manual carefully. Be familiar with the line trimmer's controls and their proper use. Know how to stop the engine rapidly, and how to unhook a harnessed trimmer unit quickly. (Harness not supplied with trimmer optional extra).
- Use the unit for the purpose it is intended for, that is trimming grass and weeds. Any other use could be dangerous or damage the line trimmer. Do not use the line trimmer as a pruning hook.
- Never allow children or people unfamiliar with this owner's manual to use the trimmer unit. Local regulations may restrict the age of the operator.
- If you lend or resell your trimmer to a third person, instruct them on how to handle the product and advise them to read the Owner's Manual carefully before operation.
- Never operate the 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 (50ft..) away from the operator during operation. **NOTE** that an assistant to the operator should work at least 15m (50ft.) away from the operator, too. We recommend that you devise an 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 trimmer unit, always wear the following protective clothing and protective devices:
 - Protective clothing:
 - Wear adequate clothing with long sleeves and long pants. The clothing must fit your body and button up or zip up securely. Do not leave the sleeves and bottom of the shirt/jacket loose. Wear the arm covers, too.
 - Do not wear clothing with tapes, laces and/or ribbons. Do not wear loose clothes, neckties, necklaces etc. during operation. They can be caught in the trimmer head or on the cutting attachment causing injury. Bind your hair if it is long, and do not let your hair hang below your shoulders.
 - Protective devices
 - **Goggles:** Wear goggles or other eye protection to protect your eyes from debris that is thrown by the cutting attachment (nylon-line cutting head).
 - **Helmet:** Wear a helmet to protect your head from overhead branches and falling foreign material.
 - **Face shield:** Wear a face shield to protect your face from debris thrown by the cutting attachment.
 - **Ear muffs/ear plugs:** Wear ear muffs, ear plugs or other hearing protection to protect your ears from the noise.
 - **Gloves:** Wear gloves to protect your hands.

Safety Instructions

! WARNING

To ensure safe operation

- Before each use, visually inspect the trimmer unit including the cutting attachment for any damage and looseness of fastening part.
- Avoid operating the trimmer at night or in bad weather or poor visibility, as it could be dangerous.
- Walk, never run during operation.
- Avoid operating the trimmer unit on a steep slope. Steep slopes can be very slippery and should be avoided.

Operator Responsibility

- Do not operate the trimmer unit with the debris shield, labels, and other parts removed.
- Note that the debris shield is provided for the protection of the operator from debris that is thrown from the cutting attachment (nylon-line cutting head).
- Never operate the trimmer with the debris shield removed or before securely installing the debris shield in the proper position.
- Do not mount an incorrect part and do not tamper with the trimmer, as it can result in personal injury and/or equipment damage. Use the cutting attachment that is designated for your model and application. Do not change the engine governor settings or overspeed the engine.
- Before cranking the engine, make sure the cutting attachment cannot come into contact with the ground or any obstruction.
- Start the engine carefully according to instructions and with hands and feet well away from the cutting attachment.
- Start the trimmer unit on a level surface, free of high grass or obstacles.
- Do not raise the cutting attachment above your knee height during operation.
- You can be hit by the debris thrown by the cutting attachment in your eyes and face causing injury.
- Never carry the trimmer unit while the cutting attachment is turning.
- Before you carry the trimmer, be sure to stop the engine and confirm the cutting attachment has stopped turning.

! WARNING

To ensure safe operation

Operator Responsibility

- Stop the engine and disconnect the spark plug cap in the following cases:
 - Before any operation around the cutting attachment (nylon-line cutting head).
 - Before checking, cleaning or working on the trimmer unit.
 - After striking a foreign object. Inspect the trimmer for damage and make repairs before restarting and operating the unit again.
 - If the trimmer starts to vibrate abnormally. Immediately check the cause of the vibration and perform the necessary repair.
 - Stop the engine in the following cases
 - Whenever you leave the trimmer unattended.
 - Before refuelling.
 - When any person or pet is approaching.
 - Shut off the engine immediately when the trimmer unit shows abnormal vibration suddenly. Sudden vibration suggests there are 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 cutting attachment and flap around. Remove the wires after the cutting attachment has stopped turning.
 - Before placing the trimmer on the ground, make sure the cutting attachment stops turning.
- NOTE** that the cutting attachment is turning by inertia right after returning the throttle trigger and while the engine is idling.
- The trimmer unit is faulty when the engine is idling by returning the throttle but the cutting attachment keeps turning, and idle speed adjustment must be made. Consult your authorised Honda dealer.
 - Keep all nuts, bolts and screws tight to be sure the trimmer is in safe working condition. Regular maintenance is an essential aid to user's safety and retaining a high level of performance.
 - Do not use the trimmer with worn or damaged parts. Such 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.
-

Safety Instructions

! WARNING

To ensure safe operation

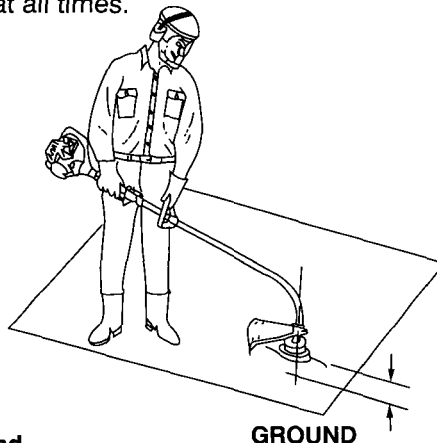
Operator Responsibility

Adjust the holding position of your trimmer unit. Be sure to adjust the holding position with the engine stopped. If the unit is equipped with a carrying harness, adjust the carrying harness so that the quick-release latch is positioned at your right hip. Hook the trimmer shaft hook to the carrying harness. Adjust the carrying harness length so that the cutting attachment is parallel to the ground and stays above the ground keeping the clearance specified below.

NOTE that it might be hard to hold the line trimmer in the correct position if you are very tall. Do not operate the trimmer if the cutting attachment is close to your feet when you hold the trimmer at the correct position. Check the balance of the trimmer unit between its front and rear sides for proper control and less fatigue.

Hold the trimmer unit at the correct position as described above. Slacken your grip on the handle gradually. Do not release but put your hands lightly on the handle and check that the cutting attachment-to-ground clearance does not change greatly.

Hold the trimmer unit firmly with both hands during operation to keep the trimmer under control at all times.



**Parallel to the ground and
0-30 cm (0-11.8 in.) for the nylon-line**

! WARNING

To ensure safe operation

Operator Responsibility

- Injury caused by vibration and cold:
You may feel a prickling or burning pain in your fingers, and your fingers may lose colour and feeling depending on your constitution. It is believed that these symptoms are brought on 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 trimmer unit in a day. A day's work should consist of work with the trimmer unit and other work without hand-held equipment so that you can limit the amount of time your hands are exposed to 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.
 - If 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:
Repeated operation for a prolonged time may cause injury. Observe the following instructions to reduce the causes of injury:
 - Avoid repeated operation by using your wrist(s) in bent, stretched or twisted position.
 - Take breaks regularly to minimise the effect of repeated operation. Take your time when performing repeated operation. Do not rush the operation of the trimmer unit.
 - If your fingers, hands, wrists and/or arms start throbbing or become numb after short usage consult your doctor.

Safety Instructions

! WARNING

To ensure safe operation

Child Safety

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

Thrown Object Hazard

Objects hit by the cutting attachment can be thrown from the operational trimmer unit with great force, and may cause serious injury. Thoroughly inspect the area where the trimmer is to be used and remove all objects (stones, branches, wires, bones, etc...) which may be thrown by the cutting attachment.

! WARNING

To ensure safe operation

Fire and Burn Hazard

Gasoline is extremely flammable, and gasoline vapour can explode. Use extreme care when handling gasoline. Keep gasoline 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 gasoline is spilled, do not attempt to start the engine but move the trimmer unit away from the area of spillage and avoid creating any source of ignition until gasoline vapours have dissipated.
- Tighten all fuel tanks and container caps securely.
- When you start the engine after refuelling, be sure to start the engine at least 3 m (10 ft.) away from the refuelling spot.
- Never store the trimmer with gasoline 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 trimmer unit, especially the engine muffler, and the gasoline storage area, free of grass, leaves, or excessive grease. Do not leave containers of vegetable matter in or near a storage building.
- If the fuel tank has to be drained, this should be done outdoors, with a cold engine.

Carbon Monoxide Poisoning Hazard

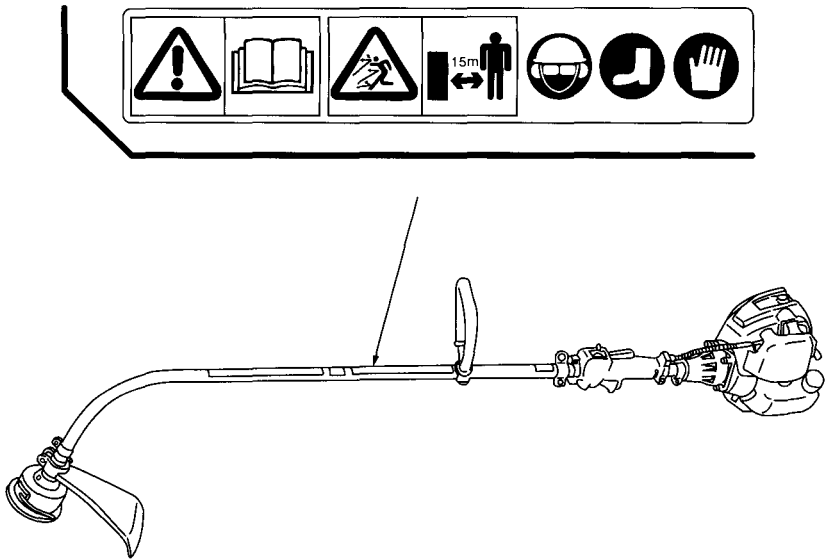
Exhaust gases contain poisonous carbon monoxide, a colourless and odourless gas. Breathing exhaust gases can cause loss of consciousness and may lead to death.

- 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.

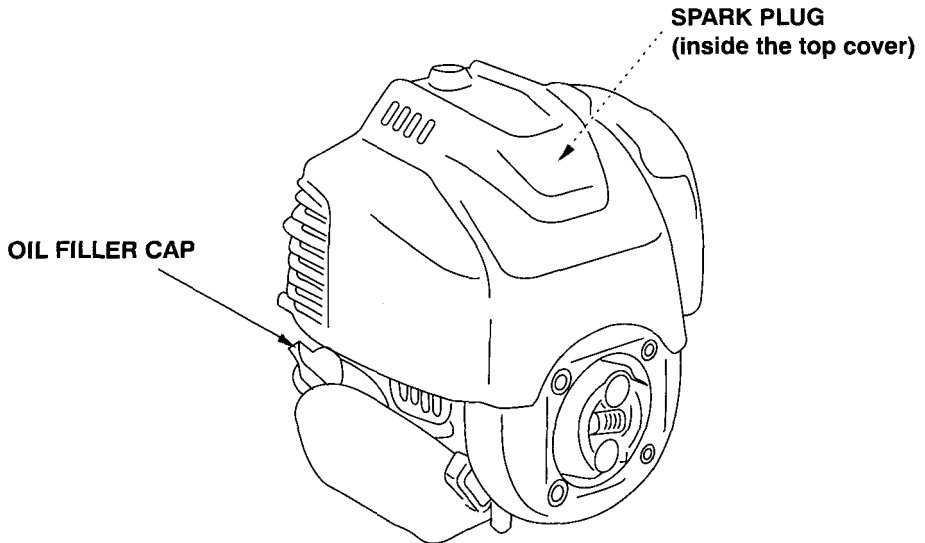
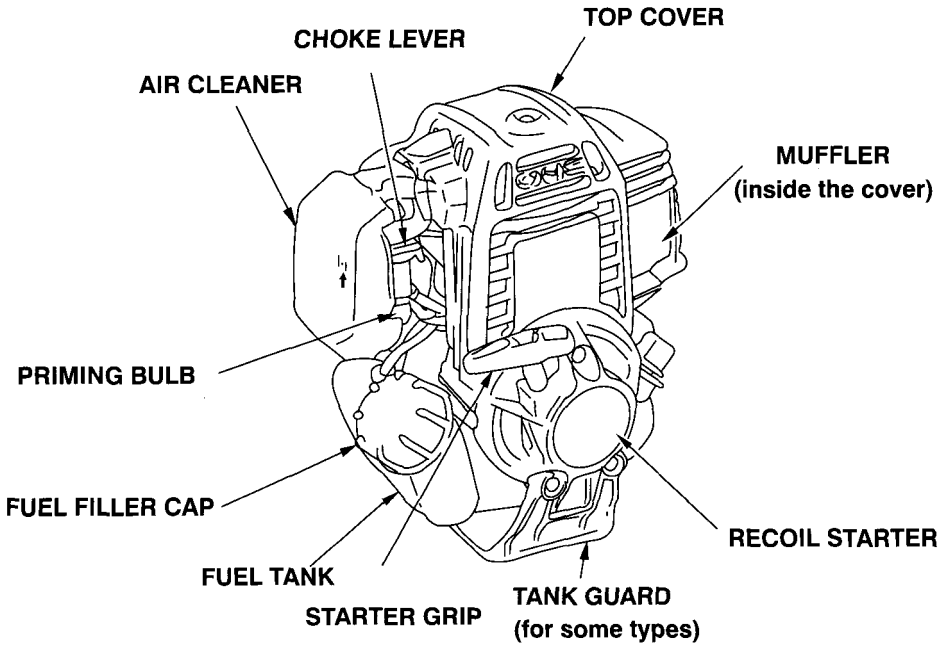
Safety Label Locations

Your trimmer unit must be used with care. Therefore, decals have been placed on the machine to remind you pictorially of the main precautions to take during use. Their meanings are explained on page 4.

These decals are considered an integral part of the trimmer unit. Should one become detached or unreadable, contact your HONDA dealer for its replacement.



Component Identification



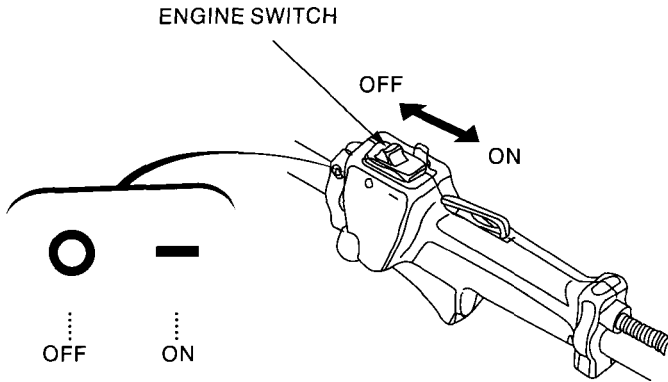
Controls

1. Engine switch

The engine switch enables and disables the ignition system.

The engine switch must be in the ON position for the engine to run.

Turning the engine switch to the OFF position stops the engine.

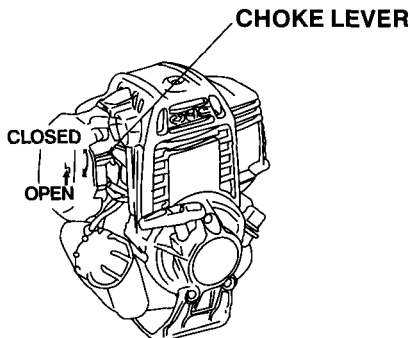


2. Choke lever

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

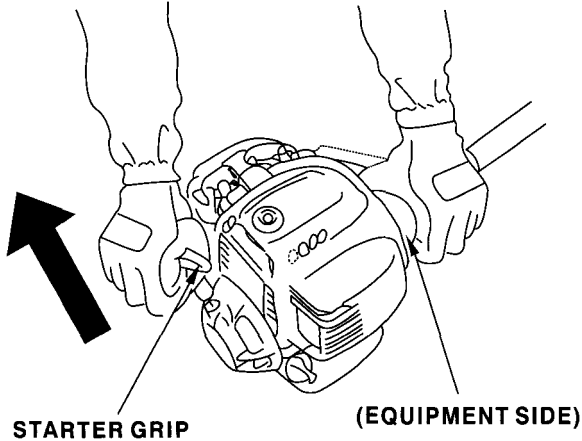
The CLOSED position enriches the fuel mixture for starting a cold engine.

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



3. Starter Grip

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



4. Throttle trigger

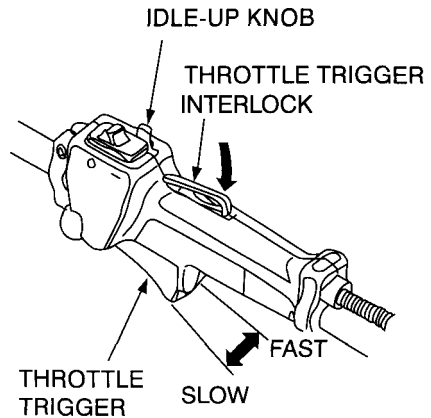
The throttle trigger controls engine speed.

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

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

Pull the throttle trigger more to accelerate the engine speed and the cutting 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.



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 spark plug cap removed from the spark plug.

Check the engine oil level

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

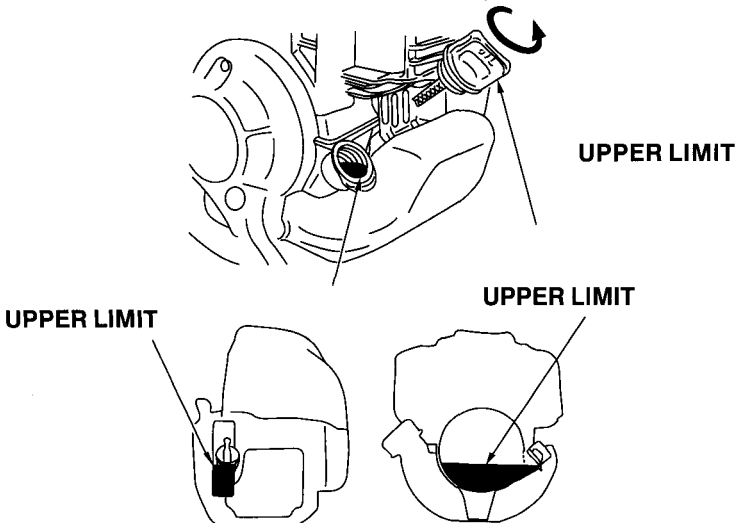
NOTE Place the trimmer on a level surface and remove the oil filler cap.

Check the oil level: it should reach the edge of the oil filler neck, and check the engine oil for contamination and deterioration. If the oil level is low, fill to the edge of the oil filler neck with the recommended oil. If the oil is contaminated or deteriorated, replace it (see page 28).

Install the oil filler cap.

After every 10 hours operation check the engine oil level and replenish oil up to the top of the oil filler neck ENGINE OIL CAPACITY: 0.08 ℓ

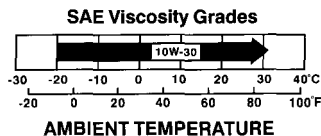
OIL FILLER CAP/DIPSTICK



Pre-Operation Checks

Use Honda 4-stroke, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container.

Select the appropriate viscosity for the average temperature in your area.



NOTE We recommend 10W-30 oil available through all Honda Power Equipment Dealers.

CAUTION Using non detergent oil or 2-stroke engine oil could shorten the engine's service life.

The recommended operating range of this engine is -5°C to 40°C (23°F to 104°F)

2. Check the fuel level

Use unleaded fuel only.

Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

! WARNING

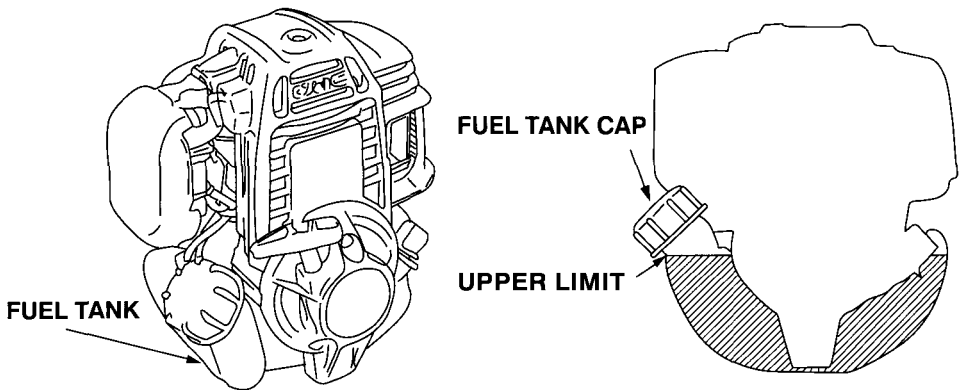
- Gasoline is extremely flammable and is explosive under certain conditions.
- Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank (there should be no fuel in the filler neck). After refuelling, make sure the tank cap is closed properly and securely.
- Be careful not to spill fuel when refuelling. 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 Gasoline substitutes are not recommended; they may be harmful to fuel system components.

Pre-Operation Checks

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, fill the fuel tank to the specified level. Remove the fuel tank cap gradually to release pressurised air in the fuel tank. Fuel in the fuel tank may spout out if the fuel tank cap is removed quickly.

FUEL TANK CAPACITY: UMS425U:0.55L



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 methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

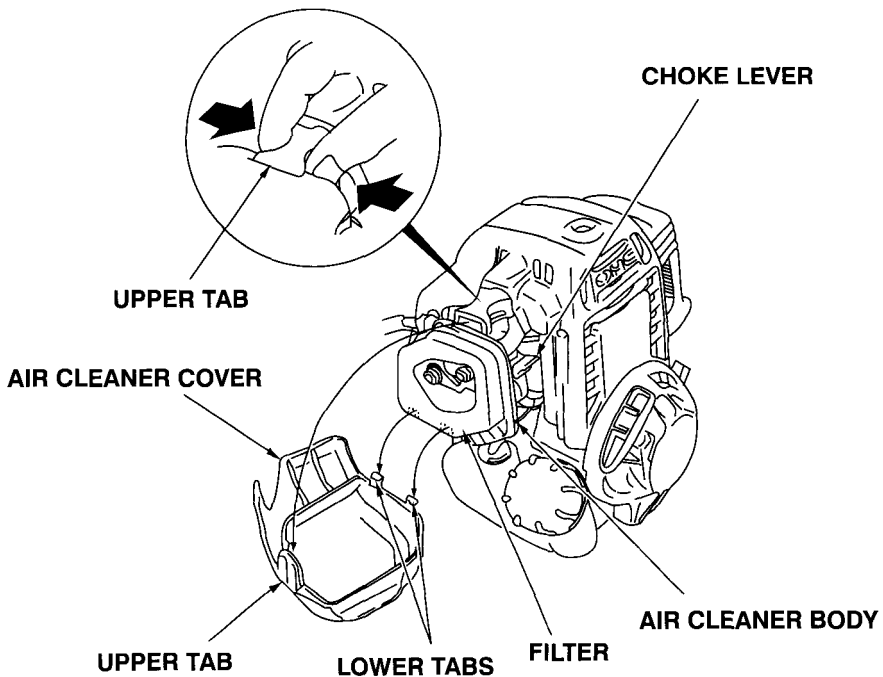
NOTE

- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol, if it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

3. Check the air cleaner element

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

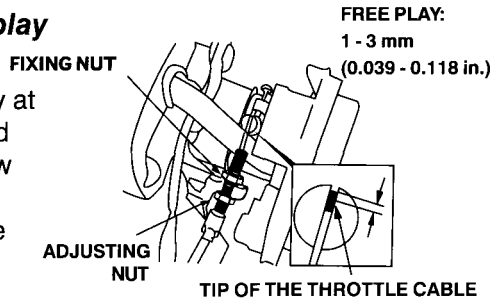
1. Move the choke lever to the CLOSED (upwards) position.
2. Remove the air cleaner cover by unhooking the upper tab on the top of the air cleaner cover and its two lower tabs.
3. Check the air cleaner element for dirt or obstruction. Clean the air cleaner element if it is dirty (see page 29).
4. Reinstall the air cleaner element.
5. Reinstall the air cleaner cover by inserting the lower tabs, then inserting the upper tab.



Pre-Operation Checks

4. Check the throttle cable free play

- Check the throttle cable free play at the tip of the cable by pulling and releasing the throttle trigger a few times. It should be 1 - 3 mm (0.039 - 0.118 in.) at the tip of the throttle cable.



If the free play is not as specified above adjust the free play (see page 33).

Check that the throttle trigger operates smoothly and always springs back to the idle position.

5. Inspect the cutting attachment

Nylon-line cutting head inspection:

! WARNING For safety, check the cutting head before starting the engine. Operating the line trimmer with a loose cracked or damaged cutting head can cause personal injury or equipment damage. Loose fastening may result in a thrown cutting head which 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 and remove the spark plug cap.
2. Check the cutting head for looseness. Tighten the cutting head securely if it is loose. If it is hard to do it yourself consult your authorized Honda dealer.
3. Check the nylon line for fluffing. If the nylon line is damaged have the nylon line advance according to the following procedures. Pull and turn a spool counterclockwise to the next notch so that the nylon line might advance.

6. Inspect the debris shield

CAUTION

- Never use the line trimmer without its debris shield. Stones or other foreign objects thrown outward by the cutting attachment or contact with the cutting attachment could cause personal injury or property damage.
 - Do not touch the line cut-off knife. Contact with it may hurt your fingers.
1. Inspect the debris shield to be sure that it is correctly installed and is not damaged. If the debris shield is damaged replace it before using the trimmer unit.
 2. Check the debris shield mounting bolts for looseness. Tighten the bolts securely if necessary.

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

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.

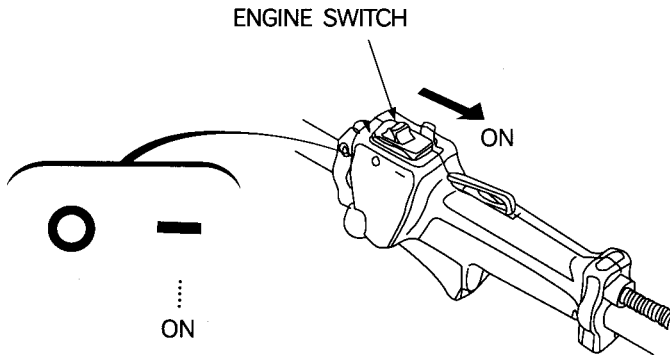
CAUTION

Do not start the engine with the trimmer unit hanging from the carrying harness or raised in the air off the ground. The trimmer can make unexpected movement causing injury in your legs, etc.

NOTE

Place the trimmer in an area free from obstacles, and be sure the cutting attachment is not in contact with the ground and other materials.

1. Turn the engine switch to the ON position.

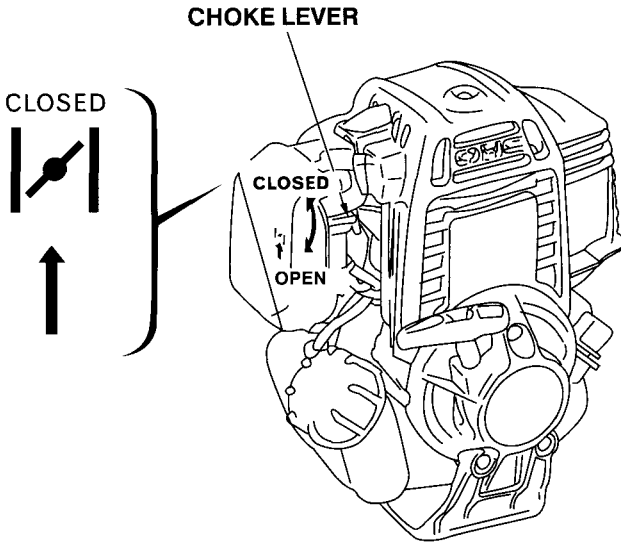


Starting the Engine

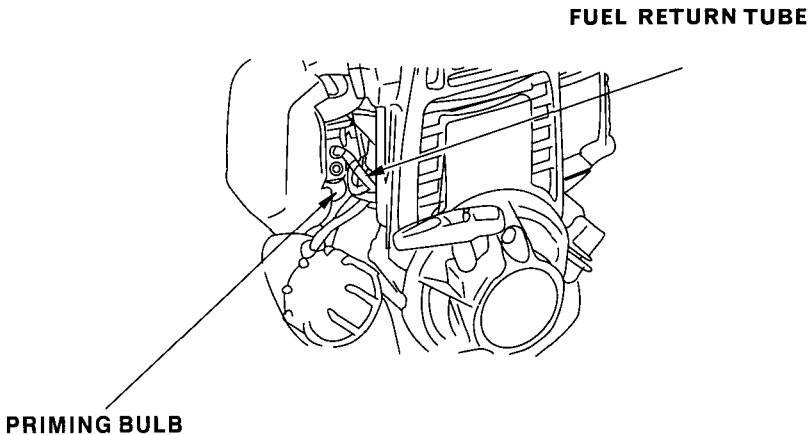
- To start a cold engine, move the choke lever upward to the CLOSED position.

NOTE

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



- Press the priming pump several times until a flow in the fuel return tube (transparent tube) is visually noticed.

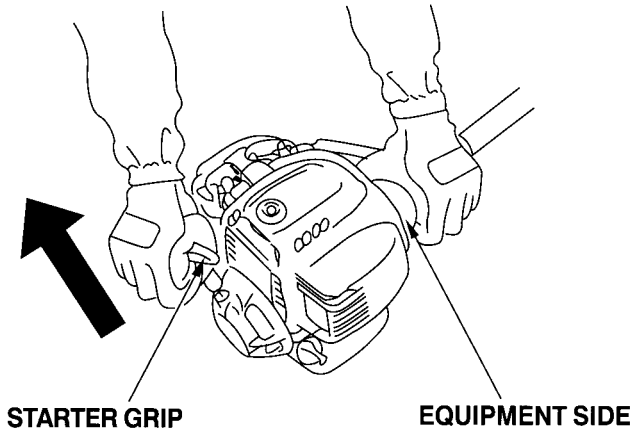


Starting the Engine

4. Pull the starter grip lightly until you feel resistance while holding the main pipe, then pull briskly. 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



Trimming Operation

Idle-up function

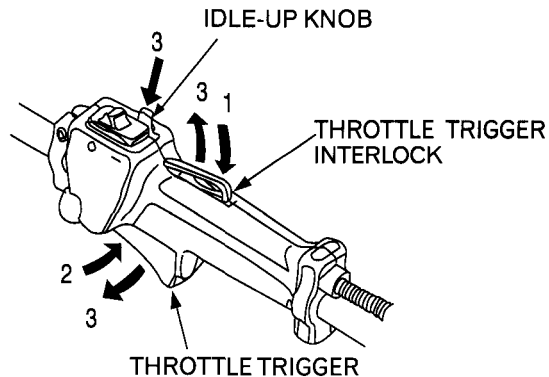
The idle-up function is a function that helps an engine to start by opening the throttle valve in the carburetor moderately when the engine won't start.

1. Hold down the throttle trigger interlock.
2. Pull the throttle trigger.
3. Push the idle-up knob, then release the throttle trigger and throttle trigger interlock in that order.
4. Start the engine.

NOTE : This function must not be used while trimming work.

If the engine won't start after performing the idle-up function, consult the Honda servicing dealer.

NOTE:



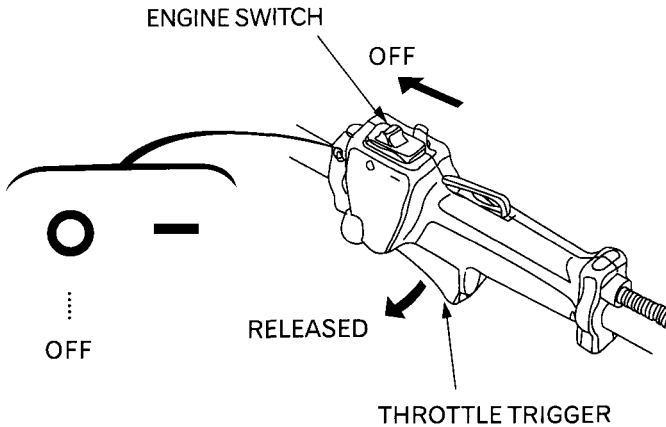
Read and understand the safety instructions on pages 4 to 12 before operating the trimmer unit.

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

Stopping the Engine

1. Release the throttle trigger.
2. Turn the engine switch to the OFF position.

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



Maintenance

! WARNING

- Before performing any maintenance, place the trimmer on a level surface, stop the engine and remove the spark plug cap to be certain the engine will not start accidentally.
- The trimmer unit should be serviced by an authorized Honda dealer.

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

Periodic inspection and adjustment of the Honda UMS 425 U are 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 the chart below.

For longer service and efficiency, keep the underside of the debris shield clear 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.

REGULAR SERVICE PERIOD.		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
● Engine oil	Check level	○					
	Change		○		○		
● Air filter	Cleck	○					
	Clean			○ (1)			
● Spark plug	Check-Adjust					○	
	Replace						○
Spark arrester	Clean					○	
Engine cooling fins	Check				○		
Nut, bolts, fasteners (retighten if necessary)	Check	○					
Clutch shoes	Check				○ (2)		
● Idle Speed	Check-Adjust					○ (2)	
● Valve clearance	Check-Adjust					○ (2)	
● Combustion chamber	Clean	After every 300 Hrs (2)					
● Fuel filter	Check					○	
● Fuel tank	Clean					○	
● Fuel tubes	Check	Every 2 years (replace if necessary) (2)					
● Oil tube	Check	Every 2 years (replace if necessary) (2)					

● Emission-related items.

NOTE: (1) Service the air cleaner more frequently when used in dusty areas.

(2) These items should be serviced by an authorized Honda dealer.

Maintenance

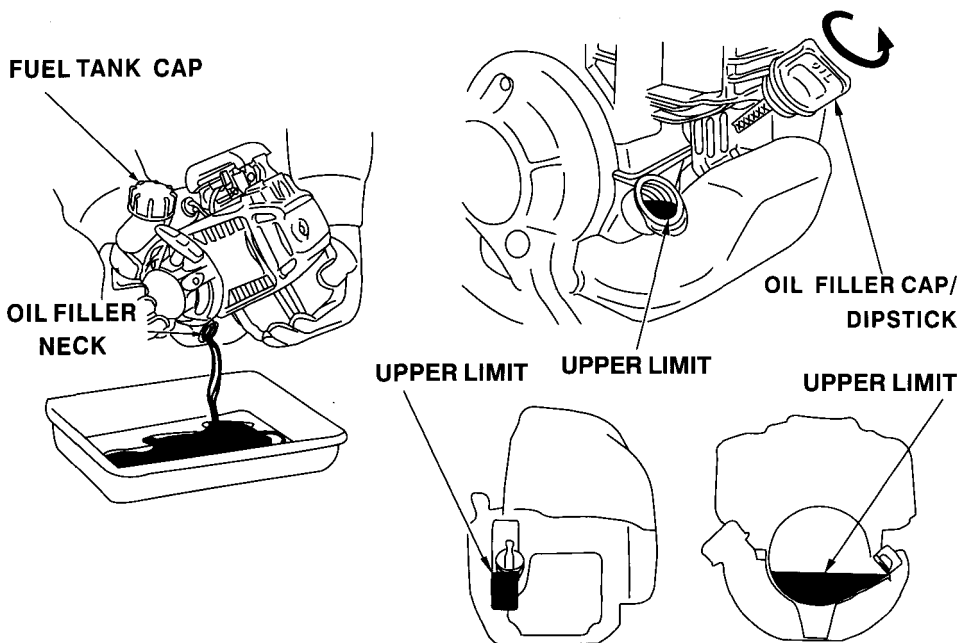
1. Engine oil change

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 17) and check the oil level. Install the oil filler cap.

ENGINE OIL CAPACITY:0.08L

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



NOTE Please dispose of used engine 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.

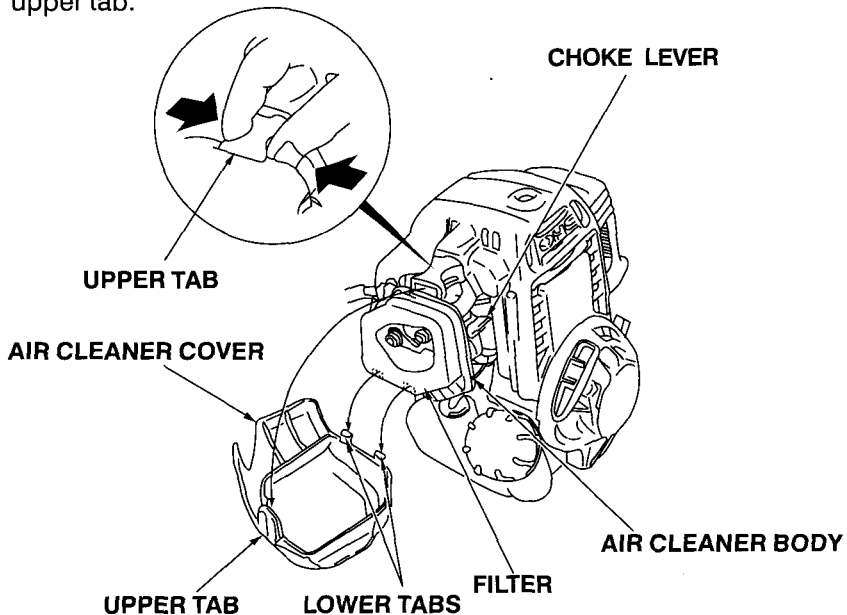
2. Air cleaner service

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

! WARNING Never use gasoline 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. Remove the air cleaner cover by unhooking the upper tab on the top of the air cleaner cover and its two lower tabs.
3. Wash the element in a nonflammable or high flash point solvent and dry it thoroughly.
4. Soak the element in clean engine oil and squeeze out the excess oil.
5. Reinstall the air cleaner element.
6. Reinstall the air cleaner cover by inserting the lower tabs, then insert the upper tab.



Maintenance

3. Cutting attachment replacement

Nylon-line cutting head

! WARNING

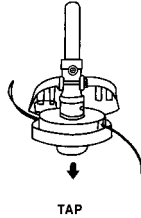
- To avoid severe personal injury, disconnect the spark plug cap to prevent accidental starting.
- Use a genuine Honda replacement cutting head or its equivalent.

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

1. Stop the engine and remove the spark plug cap.
2. Insert a 4 mm hexagon wrench into the locking tool hole to keep the drive shaft from turning.
3. Turn the cutting head assembly anti-clockwise to remove it from the shaft head. Replace it with a new one.

4. The line feeding action of the semi-automatic line feed type cutting head:

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



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.

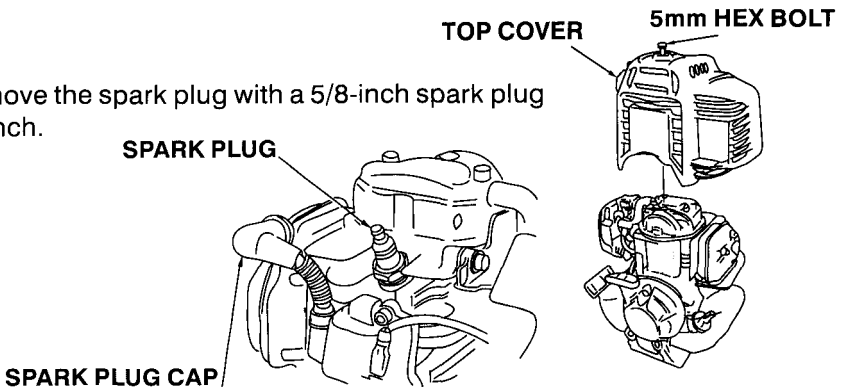
1. Remove the top cover.

Loosen the 5mm hex bolt, then remove the top cover.

CAUTION

- Do not operate the engine when the top cover is removed.
- Do not pull the recoil starter handle when the top cover is removed.

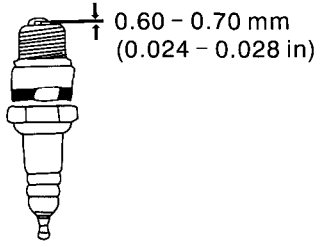
2. Remove the spark plug with a 5/8-inch spark plug wrench.



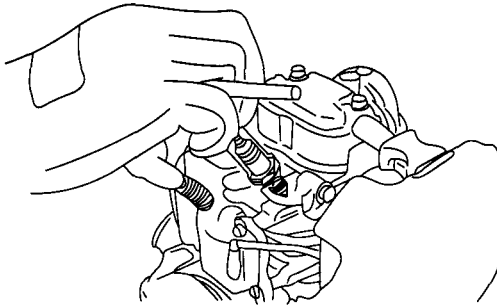
3. Visually inspect the spark plug. Discard it if there is apparent wear or the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be replaced.

Maintenance

4. Measure the plug gap with a feeler gauge. The gap should be 0.60 - 0.70 mm (0.024 - 0.028 in.) Correct as necessary by carefully bending the side electrode.



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.
7. Attach the spark plug cap.



NOTE:

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

8. Install the top cover, and tighten the 5mm hex bolt securely.

6. Throttle cable check and adjustment

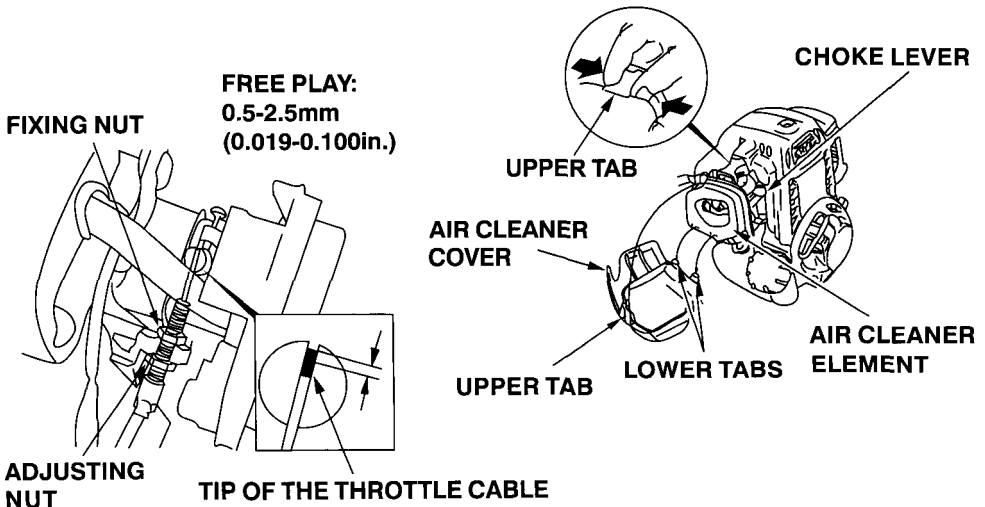
Adjust the throttle cable free play properly.

Adjustment:

1. Move the choke lever to the CLOSED (upwards) position.
2. Remove the air cleaner cover by unhooking the upper tab on the top of the air cleaner cover and its two lower tabs.
3. Loosen the throttle cable fixing
4. Check the throttle cable free play at the tip of the cable by pulling and releasing the throttle trigger a few times and adjust the free play by using the adjusting nut. It should be 0.5 - 2.5mm (0.019-0.100 in.) at the tip of the throttle cable.
5. Reinstall the air cleaner cover by inserting the lower tabs, then insert the upper tab.

NOTE After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer. If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.

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

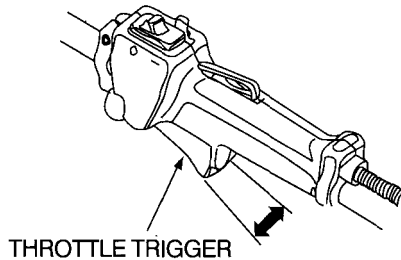


Maintenance

CAUTION

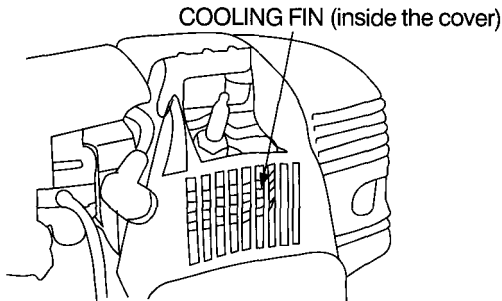
- After removing the air cleaner cover, reinstall the air cleaner cover securely. Failure to tighten the cover securely may cause the cover to come out of position by vibration or some sort of engine malfunction.
- Operating the engine without the air cleaner or improperly installed air cleaner will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

After adjustment, check the throttle trigger for smooth operation. Check the throttle cable free play at the tip of the cable again. Consult your authorized Honda dealer if necessary.



7. Engine cooling fin inspection

Inspect the cooling fin visually through the cover. If there is dry grass, leaves and mud clogged, consult your authorized Honda power equipment dealer for cleaning it.



8. Fuel tank strainer service

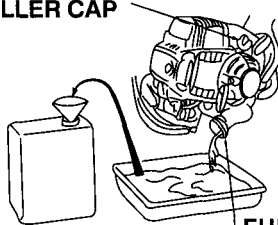
NOTE that a clogged fuel filter can cause poor engine performance.

! WARNING Gasoline 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 tank strainer

- Stop the engine.
- Inspect in a well-ventilated area.
- Keep heat, sparks, and flame away. Do not smoke.
- Do not spill the gasoline. If you do spill the gasoline, wipe it up immediately and dispose of the cloth in a manner that is compatible with the environment

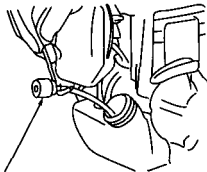
1. Be sure that the engine oil filler cap is tightened securely.
2. Remove the fuel tank cap and drain the gasoline into the container by tipping the engine toward the fuel filler neck.

ENGINE OIL FILLER CAP



FUEL FILLER NECK

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



FUEL FILTER

5. Reinstall the fuel tank strainer into the fuel tank and tighten the fuel tank cap securely.

Maintenance

9. Fuel tank cleaning

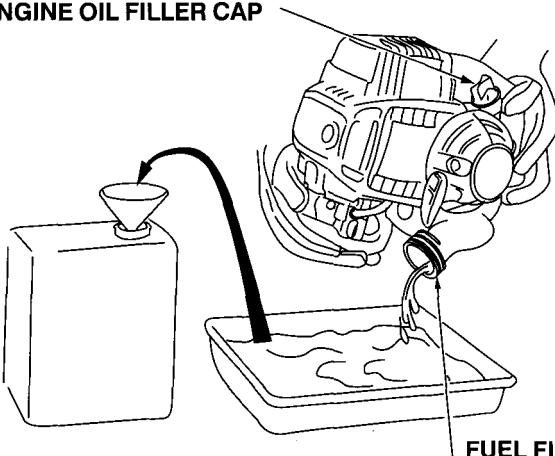
Water and dust, dirt or foreign material in the fuel tank can cause poor engine performance.

! WARNING Gasoline 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 tank strainer

Stop the engine.

- Inspect in a well-ventilated area.
 - Keep heat, sparks, and flame away. Do not smoke.
 - Do not spill the gasoline. If you do spill the gasoline, wipe it up immediately and dispose of the cloth 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 gasoline into the container by tipping the engine toward the fuel filler neck.

ENGINE OIL FILLER CAP



FUEL FILLER NECK

3. pull out the fuel tank strainer with the mechanic's wire from the fuel filler neck gently.
4. Remove water and dirt still in the fuel tank by rinsing the inside of the fuel tank with nonflammable or high flash point solvent.
5. Reinstall the fuel tank strainer into the fuel tank and tighten the fuel tank cap securely.

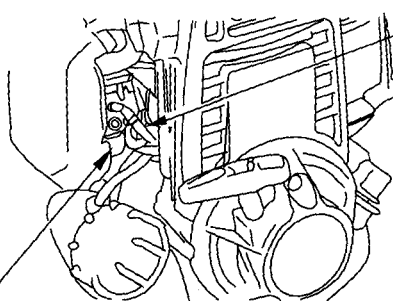
Storage

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

CAUTION

- **If the line trimmer has been running, the engine will be very hot; allow it to cool before proceeding.**
 - **Place the trimmer on a level surface and remove the spark plug cap to be certain the engine will not start accidentally.**
1. Clean all exterior surfaces, touch up any damaged paint, and coat both areas that may rust with a light film of oil.
 2. Drain the fuel (see page 35).
 - a. Press the priming pump several times until all fuel left in the fuel return tube is returned into the fuel tank.
 - b. Tip the engine toward the fuel filler neck again to drain the fuel left in the fuel tank into the container.
 - c. Tighten the fuel tank cap securely after draining the fuel completely.

**PRIMING
BULB**



FUEL RETURN TUBE

3. Change the engine oil (see page 28).
4. Clean the air cleaner (see page 29).
5. Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder.
6. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug. Pull the starter grip slowly until resistance is felt.
7. Cover the line trimmer to keep out dust.

Troubleshooting

When the engine will not start:

1. Is the engine switch in the ON position?
2. Is there fuel in the fuel tank (see page 18)

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

3. Is gasoline reaching the carburettor? To check, press the priming pump several times (see page 23).
4. If the engine still does not start, take the line trimmer unit to an authorized Honda 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 wear, crack or any other damage. If necessary replace it (see page 30).

Specifications

Model	UMS425U	Overall Height	350mm	
FRAME		Dry Weight (with cutting head)	5.3kg	
	Type	LNU	Clutch Type	Centrifugal Clutch
	Handle Type	Loop	Cutter Tool	Nylon Line
	Overall Length	1640mm	Cutter Type	Semi-automatic Line Feed
	Overall Width	230mm	Cutter O.D.	116-420mm

Engine

MODEL	UMS425U
Engine model	GX25
Engine type	4-stroke,overhead valve,1 cylinder
Displacement	25cm ³
Bore X Stroke	35mmX26mm
Max.output	0.81Kw(1.1ps)/7,000rpm
Max. torque	1.25N·m(0.13kg·m)/5,000rpm
Fuel consumption	340g/kWh(250g/PSh)
Cooling system	Forced air
Ignition system	Transistor Magneto
Oil capacity	0.08l
Fuel tank capacity	0.55l
Spark plug	NGK:CMR5H

NOTE:

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

Specifications

Model UMS425U

Vibrations

UMS425U			
LTU			
		left	right
Grass Trimmer			
Full Throttle with no load		5	5

(M/S²)

Tested by Australian Standard AS3575-1995
(2.9Vibration Levels)

Sound pressure levels

UMS425U	
LTU	
Australia New South Wales standard	
77	

(db)

*The figure of label that pasted to main body,
displays 80db of the restriction value.
Tested by Australian Standard AS3575-1995
(2.10 Sound Pressure Levels)

UMS425U	
LTU	
Ear noise tested by ISO7917	
101	

(db)

