

# Operation Manual

## Hedge Trimmer

61493



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

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## Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.** Keep these operation instructions safe.

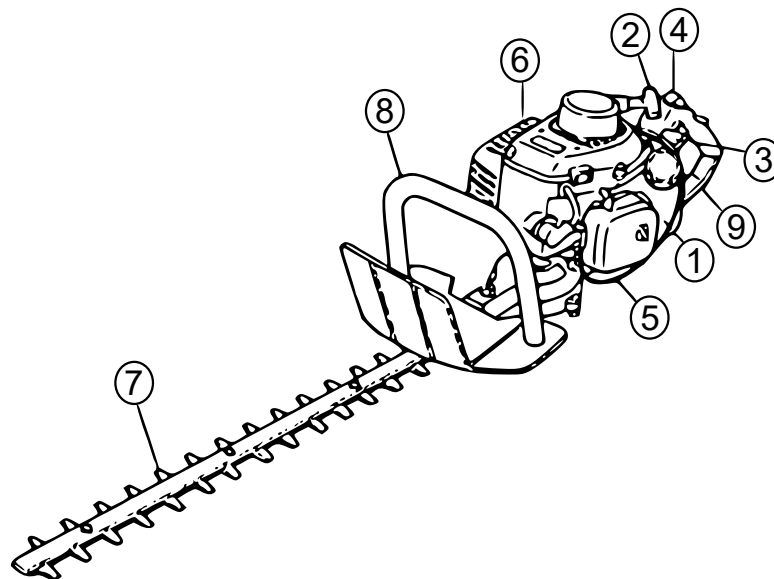
### Safety first

Instructions contained in warnings within this manual marked with the symbol  concern critical points which must be taken into consideration to prevent possible serious injury, and for this reason you are requested to read all such instructions carefully and strictly follow them.

### Warnings in the manual

	<b>WARNING</b> – This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.
	<b>IMPORTANT</b> – This mark indicates instructions which must be followed, or mechanical failure, breakdown, or damage may result.
	<b>NOTE</b> – This mark indicates hints or directions useful in the use of the product.

### Parts list








No	Name	No	Name
1	Fuel tank	6	Muffler
2	Starter	7	Blade
3	Throttle lever	8	Front handle
4	Ignition switch	9	Rear handle
5	Throttle cable		


## Specifications

<b>Model</b>	TMHT230B/TMHT260B/TMHT230B-2/TMHT260B-2	
<b>Type</b>	Reciprocating double-sided dual blades	
<b>Dry weight (kg)</b>	6.5	
<b>Blade size (mm)</b>	550 / 620	
<b>Blade pitch (mm)</b>	28	
<b>Transmission</b>	Centrifugal clutch, cam-crank	
<b>Engine</b>	<b>Type</b>	Air-cooled 2-stroke gasoline
	<b>Model</b>	1E32F/1E34F
	<b>Displacement (cm<sup>3</sup>)</b>	22.5 / 25.4
	<b>Max. output (kW)</b>	0.9 at 7500 1/min
	<b>Idle speed (1/min)</b>	2800 ± 200
	<b>Fuel</b>	Mixture (gasoline : oil = 40 : 1)
	<b>Fuel tank capacity (l)</b>	0.58
	<b>Sound pressure level (dB (A))</b>	97.7; K = 3
	<b>Sound power level (dB (A))</b>	107.7; K = 3
	<b>Sound power level L<sub>WA</sub> (dB)</b>	110
	<b>Vibrations front handle (m/s<sup>2</sup>)</b>	6.984
<b>Vibrations rear handle (m/s<sup>2</sup>)</b>	8.293; K = 1.5	

## Warning labels on the machine

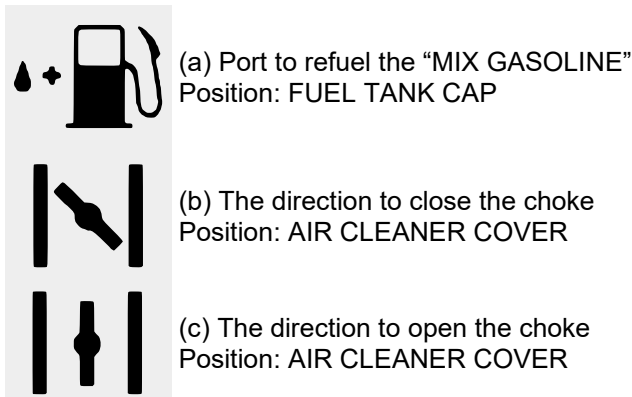
Symbols	Meaning
	Read owner's manual before operating this machine.
	Wear head, eye, and ear protection.
	Handling this machine improperly could result in accidents causing serious injury or death. Read this manual carefully and practice using the hedge trimmer until you are fully acquainted with all operations and have learned to use it correctly.
	Device is extremely sharp and can easily cause cuts.

 **IMPORTANT:** If warning labels peel off or become soiled and impossible to read, you should contact the dealer who you purchased the product from to order new labels and fix them in the required location(s).

 **WARNING:** Never modify your hedge trimmer. We shall not warrant the machine if you modify the hedge trimmer or if you do not observe the proper usage described in this manual.

### Symbols on the machine

For safe operation and maintenance, symbols are carved on the machine. According to these indications, please be careful not to take a mistake.



### For safe operation



**THIS MACHINE CAN CAUSE SERIOUS INJURIES.** Read this manual carefully until you completely understand and follow all safety and operating instructions. Know how to stop the machine quickly in an emergency, too.

1. Keep this manual handy so that you may refer to it later whenever any questions arise. Note as well that, if you have any questions which cannot be answered herein, you should contact the dealer from whom you purchased the product.
2. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
3. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.



### Working condition



1. When using the product, you should wear proper clothing and protective equipment:
  - Helmet
  - Ear protectors
  - Protection goggles or face protector
  - Thick work gloves
  - Non-slip-sole work boots

2. And you should carry with you
  - Attached tools
  - Properly reserved fuel
  - Spare blade
  - Things to notify your working area (rope, warning signs)
  - Whistle (for collaboration or emergency)
  - Hatchet or saw (for removal of obstacles)
  - First-aid kit



3. Do not wear loose clothing, jewellery, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.



#### Working circumstance

- Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.
- Never use the product,
  - when the ground is slippery or when you cannot maintain a steady posture.
  - at night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
  - during rain storms, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.



#### Working plan

- You should never use the product when under the influence of alcohol or drugs, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when there is a possibility that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.
- When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30–40 min per session, and take 10–20 min of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.



#### **WARNING**

1. If you do not observe the working time, or working manner (See “USING THE PRODUCT”), Repetitive Stress Injury (RSI) could occur. If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.
2. To avoid noise complaints, in general, operate the product between 8 a. m. and 5 p. m. on weekdays and 9 a. m. to 5 p. m. on weekends.



- NOTE:** Check and follow the local regulations as to sound level and hours of operations for the product.



## Before starting the engine

1. The area within a perimeter of 15 m (50 ft) of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope and/or warning signs should be placed around the perimeter of the area. When work is to be performed, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.
2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.



**IMPORTANT:** Remove any obstacle before beginning work.

3. Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.

## Starting the engine

1. Keep bystanders, especially children, and animals at least 15 m (50 ft) away from the operating point. If you are approached, immediately stop the engine.
2. The product is equipped with a centrifugal clutch mechanism; so the cutting attachment might begin to rotate as soon as the engine is started. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.



**WARNING:** Never place the throttle into the high-speed position when starting the engine. Never start the engine at the cutting attachment side.

3. After starting the engine, check to make sure that the cutting attachment stops rotating when the throttle is moved fully back to its original position. If it continues to rotate even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized servicing dealer for repair.

## Using the product



**IMPORTANT:** Cut only materials recommended by the manufacturer, and only use the device for tasks explained in the manual.

1. Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
2. Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
3. If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
4. Keep all parts of your body away from rotating cutting attachment and hot surfaces.
5. Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in serious burns or electrical shock.





5. While operating the machine, be always sure of a safe and secure operating position especially when using steps or a ladder.

#### *If someone comes*

1. Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
2. If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.



**(1)** Check if everything is alright!

#### **Maintenance**

1. In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
2. Always be sure to turn off the engine before performing any maintenance, checking procedures, or working on the machine.



**WARNING:** The metallic parts reach high temperatures immediately after stopping the engine.

3. When replacing the cutting attachment or any other part, or when replacing the oil or any lubricant, always be sure to use only products which have been certified for use with the product.
4. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a qualified workshop for assistance.
5. Do not use any accessory or attachment other than those bearing the mark and recommended for the unit.
6. Under no circumstances should you ever take apart the product or alter it in any way. Doing so might result in the product becoming damaged during operation or the product becoming unable to operate properly.

#### **Handling fuel**

1. The engine of the product is designed to run on a mixed fuel, which contains highly flammable gasoline. Never store cans of fuel or refill the tank of the unit in any place where there is/are a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
2. Never smoke while operating the unit or refilling its fuel tank.
3. When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are no sparks or open flames anywhere nearby before refuelling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refuelling.
5. After refuelling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 3 m or more away from where it was refuelled before turning on the engine.
6. Do not inhale fuel fumes as they are toxic.




**(1)** Refill after the engine has cooled down!



## Transportation

1. When you hand-carry the product, covers over the cutting part are necessary; lift up the product and carry it paying attention to the blade.
2. Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.

## Fuel

 **WARNING:** Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine, and allow it cool down before refuelling the unit. Select outdoor bare ground for fuelling, and move at least 3 m (10 ft) away from the fuelling point before starting the engine.



### *Gasoline requirements*

- All 2-stroke products are powered by professional-commercial duty, hi-performance, hi-RPM, air cooled 2-stroke engines.
- Hi-performance 2-stroke engines produce higher HP outputs as compared to standard home owner duty or light commercial duty production engines offered by most manufacturers. Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburetion, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.

### *Gasoline/oil mixture storage recommendations*

Store your gasoline or gasoline/oil mixture in a cool dry area in a tightly sealed approved container to limit the entry of moisture and additional air (oxygen). Moisture and air cause the development of varnish and gum, making the fuel stale. Stored gasoline and gasoline/oil mixture ages and loses its octane rating and volatility. Do not mix more gasoline/oil than you intend to use in 30 days, and 60 days when fuel stabilizer is added.

### *How to mix fuel*

Recommended mixing ratio gasoline/oil 40:1. Pay attention to agitation.

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and agitate well for 10 s.
4. Pour in the rest of gasoline and agitate again for at least 1 min. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizure due to abnormally lean mixture.
5. Place a clear indication on the outside of the container to avoid mixing up with gasoline or other containers that do not contain oil.
6. Indicate the contents on outside of container for easy identification.

### *Fuelling the unit*

1. Untwist and remove the fuel cap. Put the cap on a clean surface.
2. Put fuel into the fuel tank to 80 % of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

**! WARNING**

1. Select flat and bare ground for fuelling.
2. Move at least 3 m (10 ft) away from the fuelling point before starting the engine.
3. Stop the engine before refuelling the unit (this time to be sure to sufficiently agitate the mixed gasoline in the container).

*For the service life of your engine, avoid*

1. **fuel with no oil (raw gasoline)**, which will cause severe damage to the internal engine parts very quickly.
2. **gasohol**, which can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. **oil for 4-stroke engine use**, which can cause spark plug fouling, exhaust port blocking, or piston ring seizure.
4. mixed fuels which have been left **unused for a period of one month or more** may clog the carburettor and result in the engine failing to operate properly.
5. In the case of storing the product for a long period of time, clean the fuel tank after emptying it . Next, start the engine and run the carburettor dry of residual fuel.
6. In the case of scrapping the used mixed oil container, scrap it only at an authorized depository site.



**NOTE:** Normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, type of oil or fuel to be used described therein, it may not be covered by the warranty.

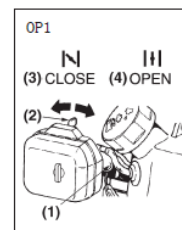
## Operation

### Starting engine

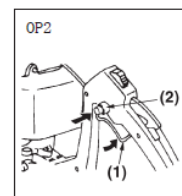


**WARNING:** Keep the blades clear of the surrounding as they will start moving upon starting of the engine.

1. When first starting up after putting fuel into the machine, push the priming pump until fuel runs out in the clear tube. Then close the choke. Choking may not be necessary when re-starting right after stopping the engine (OP1).
2. Pull the throttle lever and push the lock button to set the lever in the START position (OP2).

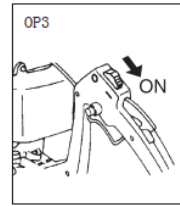


(1) primer pump,  
(2) choke lever,  
(3) CLOSE,  
(4) OPEN



(1) throttle lever,  
(2) lock button

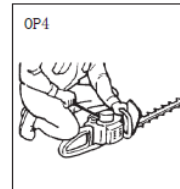
- Slide the ignition switch to the engine side to set it in the ON position (OP3).



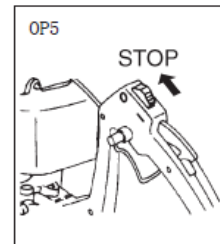
- Rest the unit on a firm place. Pull the starter knob quickly (OP4).



**NOTE:** Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.



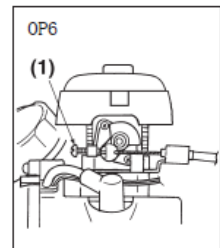
- When the engine has started, gradually open the choke.



- Allow the engine to warm up for half a minute before starting operation.



**NOTE:** If the engine would not start after several attempts, open the choke and repeat pulling the rope or remove the spark plug and dry it.



### Stopping the engine

- Release the throttle lever and run the engine at idling speed for half a minute.
- Slide the ignition switch to the STOP position.



**IMPORTANT:** Except for an emergency, avoid stopping the engine while pulling the throttle lever.



**NOTE:** If the engine would not stop when setting the ignition switch to the stop position, close the choke lever and stop the engine. In this case, please have the machine repaired at a qualified workshop.

### Adjusting idling speed

When the engine tends to stop frequently at idling mode, turn the idle set screw clockwise.



**NOTE**

- Idle set screw is **(1)**.
- When the cutting blades keep moving after releasing the throttle trigger, turn the idle set screw counter-clockwise. Warm up the engine before adjusting the idling speed.

## How to use

- The blades spacing is 28 mm. Cutting too thick twigs or metal wires can not only break the blade teeth but also give damage to the drive mechanism. When trimming leaves and thin twigs, guide the blades as drawing a half circle on the surface, and you will get a better finish.
- Running the engine at high speed with the blades jammed up can shorten the life of clutch parts. When the blades have been jammed by thick twigs, stop operation at once and draw your unit off the objects after stopping the engine. When clipping comparatively thick twigs, move your unit slowly back and forth like a saw, and they can be cut to a fine finish.



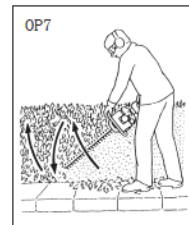
**NOTE:** When a new unit is first operated, in the first few minutes grease may come out of the gear case. But, since this is excess grease, there is no cause for alarm. For next use, just wipe it off with the engine stopped.

### *Hedge trimming techniques*

Trim sides of a hedge first and then top.

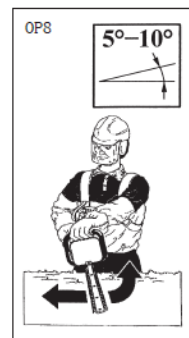
#### Vertical cut:

With the 2-sided blade model CHT2250, perform an arcing cut from the bottom upwards, then downwards to use both sides of the blades (OP7).



#### Horizontal cut:

In order to get the best cutting results, slightly tilt the blade ( $5^{\circ}$ – $10^{\circ}$ ) towards the cutting direction (OP8). Cut slowly, especially with thick hedges.




**WARNING:** Always follow the safety precautions. The hedge-trimmer must only be used to trim hedges or small bushes. It is forbidden to cut other types of material. Do not use the hedge-trimmer as a lever to lift, move, or break objects, nor lock it on fixed supports. It is forbidden to apply tools or applications that are not the ones indicated by the manufacturer onto the power take-off of the hedge-trimmer. Do not use it for pruning trees or cutting grass.

## Maintenance

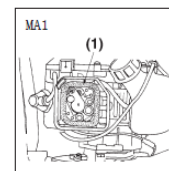
### Maintenance chart

	System/components	Procedure	Be-fore use	After every			Note
				25	50	100	
				hours of use			
E N G I N E	Fuel leaks, fuel spillage	Wipe out	×				
	Fuel tank, air filter, fuel filter	Inspect/clean	×	×			Replace, if necessary
	Idle adjusting screw	See adjusting idling speed	×				Replace carburettor if necessary
	Spark plug	Clean and read-just plug gap			×		GAP: 0.65 mm Replace, if necessary
	Cylinder fins, intake air cooling vent	Clean		×			
	Muffler, spark arrester, cylinder exhaust port	Clean			×		
T R I M M E R	Throttle lever, ignition switch	Check operation	×				
	Cutting parts	Replace if something is wrong	×				
	Gear case	Grease		×			
	Screws/nuts/bolts	Tighten/replace	×			×	Not adjusting screws
	Debris guard	Make sure to attach	×				

 **WARNING:** Make sure that the engine has stopped and cooled down before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.

#### Air filter (MA1)

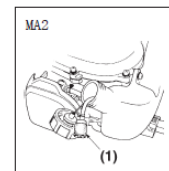
The air filter, if clogged, will reduce the engine performance. Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one (MA1).



(1) air filter

#### Fuel filter (MA2)

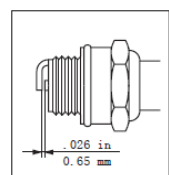
When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage.




(1) fuel filter

#### Spark plug

Starting failure and misfiring are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type. REPLACEMENT PLUG IS LD L8RTF!



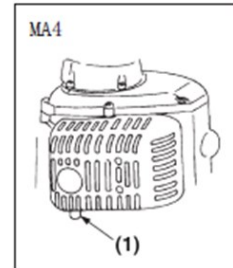
 **IMPORTANT:** Note that using any spark plug other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged. To install the spark plug,

first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench. TIGHTENING TORQUE IS: 9.8–13.7 Nm (87–121 in-lbs)!

**! WARNING:** Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately. Note that failing to do so may result in the engine catching on fire.

#### Spark arrester (MA4)

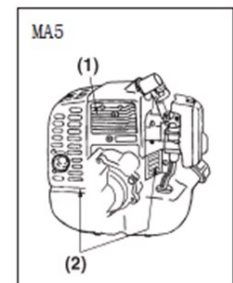
The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet. Periodically inspect and clean as necessary with a wire brush. In some countries, it might under certain circumstances be required by law to equip a spark arrester.



(1) spark arrester

#### Intake air cooling vent (MA5)

**! WARNING:** Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns. Clean the cylinder fins with compressed air or a brush.



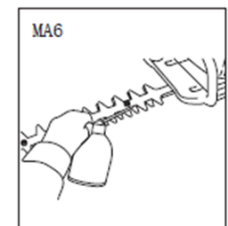
(1) cylinder, (2) intake air cooling vent (back)

**! IMPORTANT:** If waste gets stuck and causes blockage around the intake air cooling vent or between the cylinder fins, it may cause the engine to overheat, and that in turn may cause mechanical failure on the part of the hedge-trimmer.

#### Blades (MA6)

Oil blades each gas tank filling.

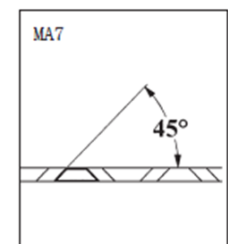
**! WARNING:** Make sure that the blade bolts are well tightened. The blade assembly is designed to automatically compensate for any play between the blades.



#### Sharpening (MA7)

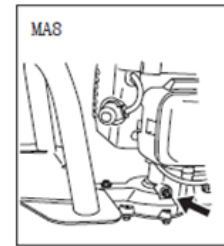
Always keep the file or sharpener at an angle of 45° to the blade, and always grind in the direction of the cutting edge.

**Note:** Files cut only in one direction. Lift the file from the blade when returning to start a new pass. Remove every burr from the edge of the blade with a slip stone. Remove as little material as possible. Before refitting the sharpened blades, remove filings and then apply grease. Do not try to sharpen a damaged blade: change it or take it to a qualified workshop.



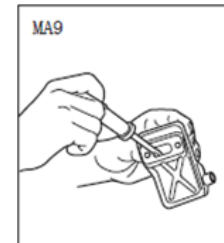
### Reduction gearbox (MA8)

Refill gear housing every 25 working hours. Use grease pump. Feed grease until it comes out of the base of blades.



### Procedures to be performed after every 100 hours of use (M9)

1. Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon build-up. Wipe away any carbon build-up on the muffler exhaust vent and cylinder exhaust port at the same time.
2. Tighten all screws, bolts, and fittings.
3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if so, wipe it clean.



### Storage

1. Oil the blade to prevent rust.
2. Empty the fuel tank and put the cap back on.
3. Remove the spark plug and pour a small amount of oil into the cylinder.
4. Rotate the crankshaft several times using the starting rope in order to distribute the oil. Put the spark plug back in.
5. Wrap the engine with a plastic sheet.
6. Store the trimmer in a dry place, preferably not in direct contact with the floor and away from heat sources.

### Disposal

When disposing your machine, fuel or oil for the machine, be sure to respect all local regulations.



## Troubleshooting

### Case 1: Starting failure

CHECK	PROBABLE CAUSES	ACTION
Fuel tank	Incorrect fuel	Drain it and fill in correct fuel.
Fuel filter	Fuel filter is clogged	Clean.
Carburettor adjustment screw	Out of normal range	Adjust to normal range.
Sparking (no spark)	Spark plug is fouled/wet	Clean/dry.
Sparking (no spark)	Plug gap is incorrect	Correct (gap: 0.65 mm).
Spark plug	Disconnected	Re-tighten.

### Case 2: Engine starts but does not keep running/re-starting is very hard

CHECK	PROBABLE CAUSES	ACTION
Fuel tank	Incorrect fuel or staled fuel	Drain it and fill in correct fuel.
carburettor adjustment screw	Out of normal range	Adjust to normal range.
Muffler, cylinder (exhaust port)	Carbon is built-up	Wipe away.
Air cleaner	Clogged with dust	Wash.
Cylinder fin, fan cover	Clogged with dust	Clean.

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