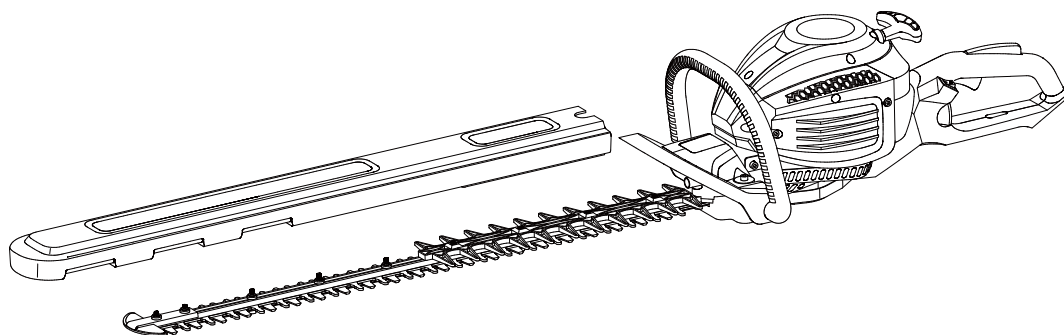


Titantec[®]
MAKE LIFE MORE BEAUTIFUL

TT-HT340-1




DEAR CUSTOMER



In order to achieve the best performance of your product, please read this instruction manual carefully before using, and keep it for future reference.



SAFETY FIRST

Instructions contained in warnings within this manual marked with a  symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

■ WARNINGS IN THE MANUAL

WARNING

This mark indicates instructions which must be followed in order to prevent accidents which could lead to serious bodily injury or death.

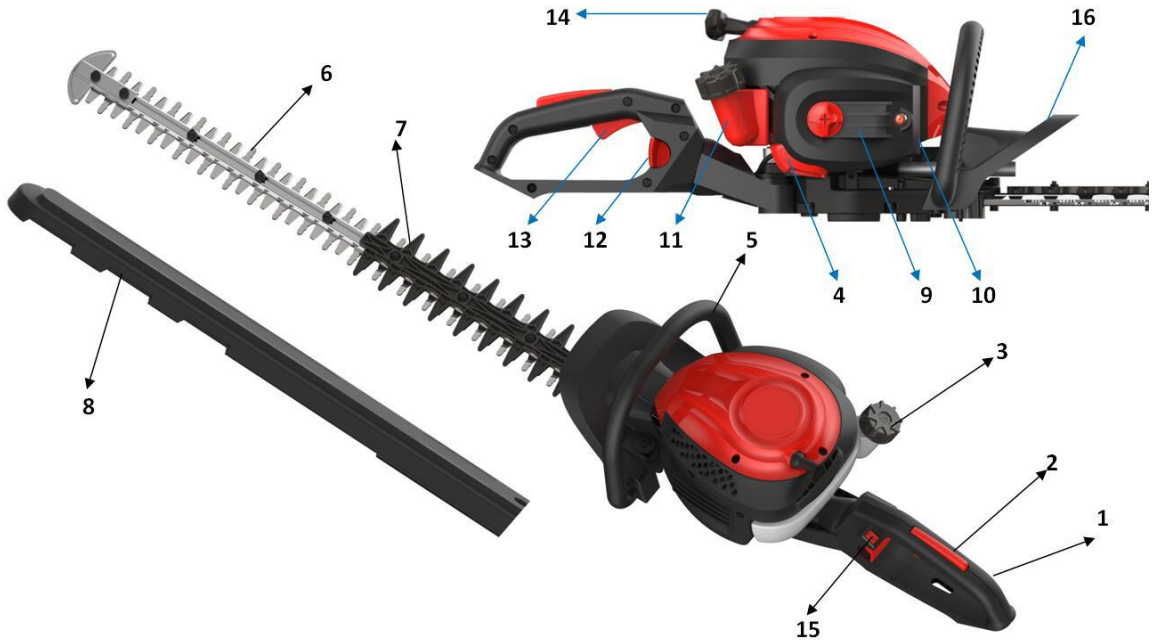
IMPORTANT

This mark indicates instructions which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints or directions useful in the use of the product.

1. Parts location



1. Rear handle
2. Throttle Lock
3. Tank Cap
4. Choke Control
5. Front handle
6. Blade
7. Blade Guard
8. Blade Protector

9. Air Filter Cover
10. Primer Bulb
11. Fuel Tank
12. Handle Lock
13. Throttle Trigger
14. Starter
15. ON/OFF switch
16. Hand Guard















2. Specifications

Model no.	TT-HT340-1
Engine type	1E34F-G1 (air-cooled, 2-stroke)
Equipment mobility	Hand-held
Engine displacement	25.4 cm ³
Maximum engine power	0.75kw
Maximum Engine speed	10000min ⁻¹
Engine idling speed	3000 min ⁻¹ ± 300
Spark Plug	L8RTF
Fuel tank capacity	450ml
Mixture ratio	Gasoline 2 5 : Oil 1
Blade Length	600mm
Cutting Length	550mm
Cutting thickness	28mm
Rear Handle rotation	5 positions (-90 ⁰ ~+90 ⁰)
Weight (without fuel)	6.3kg
Vibration at Front Handle	A _{front_hv, eq} : 3.225 m/s ²
Vibration at Rear Handle	A _{rear_hv, eq} : 4.128 m/s ²

Specifications are subject to change without notice.

3. Warning labels on the machine

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

	Read, understand and follow all warnings.		Don't work under raining days.
	Read the instruction manual completely and carefully before using the power tool.		The port to refuel the "MIX FUEL"
	Wear head, eye and ear protection.		The port to refuel the "OIL"
	Wear safety footwear		Press the primer bulb several times
	Wear protective gloves.		The guaranteed noise level
	Be careful of fire		Danger of hot components
	Keep away from fire		With this symbol the manufacturer confirms that this tool is in accordance with applicable European directives.

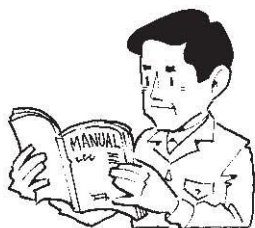
IMPORTANT

If warning label peel off or become soiled and impossible to read, you should contact the dealer from which you purchased the product to order new labels and affix them in the required location(s).

WARNING

Never modify your product. We won't warrant the machine, if you use the remodeled brush cutter or you don't observe the proper usage written in the manual.

4. For safe operation



1. Read this manual carefully until you completely understand and follow all safety and operating instructions.

2. Keep this manual handy so that you may refer to it later whenever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.

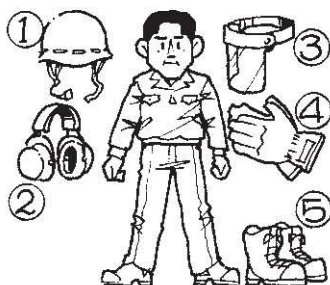


3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.

4. 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.



(1) **Helmet**

(2) **Ear protectors**

(3) **Protection goggles or face protector**

(4) **Thick work gloves**

(5) **Non-slip-sole work boots**

2. And you should carry with you.

(1) Attached tools and files

(2) Properly reserved fuel

(3) Spare blade

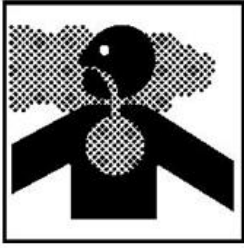
(4) Things to notify your working area (rope, warning signs)

(5) Whistle (for collaboration or emergency)

(6) Hatchet or saw (for removal of obstacles)



3. Do not wear loose clothing, jewelry, 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

1. Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.

2. Never use the product,

a. when the ground is slippery or when you can't maintain a steady posture.

b. 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.

c. 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

1. You should never use the product when under the influence of alcohol, 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 a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.

2. 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 minutes per session, and take 10~20 minutes 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 don't 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 product between 8a.m. and 5p.m. on weekdays and 9a.m. to 5p.m. weekends.



📖 NOTE

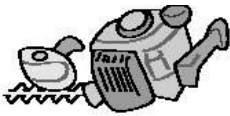
Check and follow the local regulations as to sound level and hours of operations for the product.



■ BEFORE STARTING THE ENGINE

1. The area within a perimeter of 50 feet (15m) of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, 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 grass.



⚠ IMPORTANT

Remove any obstacle before beginning work.

■ STARTING THE ENGINE

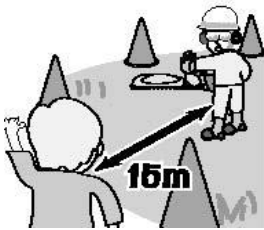
1. Keep bystanders and animals at least 50feet (15m) away from the operating point. If you are approached, immediately stop the engine.

2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. 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.

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 use only 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 start 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.

• 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.

■ 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 or checking procedures.

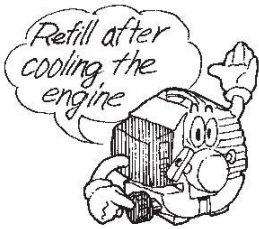
! WARNING

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

■ TRANSPORTATION

1. When hand-carrying the product, cover over the cutting part if 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.

■ 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 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 refueling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refueling.
5. After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 10feet (3m) or more away from where it was refueled before turning on the engine.

5. Fuel



⚠ WARNING

- Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel.
- Wipe up all spills before starting the engine.
- Make sure to stop the engine and allow it cool before refueling the unit.
- Keep open flames away from the area where fuel is handled or stored.

ⓘ IMPORTANT

- Never use oil for 4 cycle engine use or water cooled 2-cycle engine.
- Never use "FUEL WITH NO OIL (RAW GASOLINE)".
- Never use fuel laced with water.
- Mixed fuels which have been left unused for a period of one month or more may clog the carburetor or result in the engine failing to operate properly. Put remained fuel into an air-tight container and keep it in the dark and cool room.
- Please ask for "mixed gasoline for air-cooled 2-cycle engines" at your nearest gas station, or use fuel made by putting unleaded gasoline for automobiles and air-cooled 2-cycle engine oil into a mixing container in accordance with the following ratios and then shaking to mix well.



Mixing ratios:

When using commercially available 2-cycle oil (FB grade):

40 : 1

■ HOW TO MIX FUEL

1. Measure out the quantities of petrol and oil to be mixed.
2. Put some of the petrol into the clean, approved fuel container supplied.
3. Pour in the oil and agitate well.
4. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.

■ FUELING THE UNIT

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Pour 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 bare ground for fueling.
2. Move at least 10ft (3m) away from the fueling point before starting the engine.
3. Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed petrol in the container.
4. In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.

6. Operation

■ STARTING ENGINE

WARNING

The cutting head will start rotating upon the engine starts.

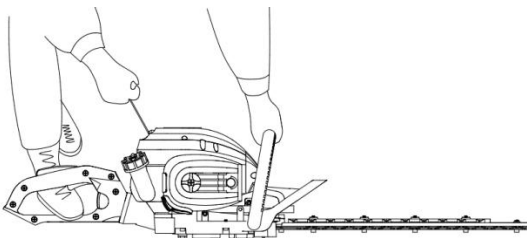
■ Cold start

1. Release the throttle lever and make sure it is fully back.
2. Set the ignition switch to the “-” position.
3. Push the primer pump several times until fuel flows out in the clear tube.



Switch on Close choke Prime

4. When the engine is cool, move the choke lever to the closed position.
5. Place the unit on a flat, firm place. Keep the cutting head clear of everything around it.
6. While holding the unit firmly, pull out the starter rope quickly until engine fires.



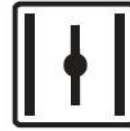
IMPORTANT

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

7. Move the choke lever downward to open the choke, and restart engine.



Pull recoil
starter handle



Open choke



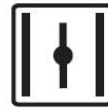
Operate

8. Allow the engine to warm up for a several minutes before starting operation.

■ Warm start



Switch on



Open choke



Pull recoil
starter handle



Operate

1. When restarting the engine immediately after stopping it, leave the choke open.
2. Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

■ STOPPING ENGINE

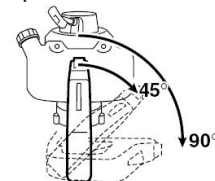
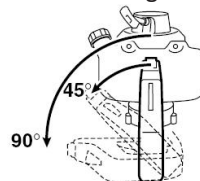
1. Release the throttle lever and run the engine for half a minute.
2. Shift the ignition switch to the “STOP” position.

NOTE

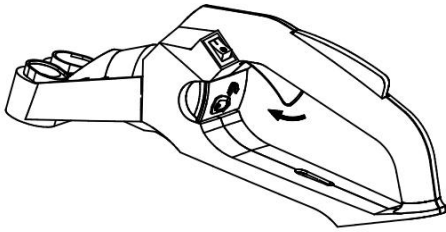
If the engine doesn't stop after stopping the switch, close the choke so that engine will stop after a little.

■ Handle adjustment

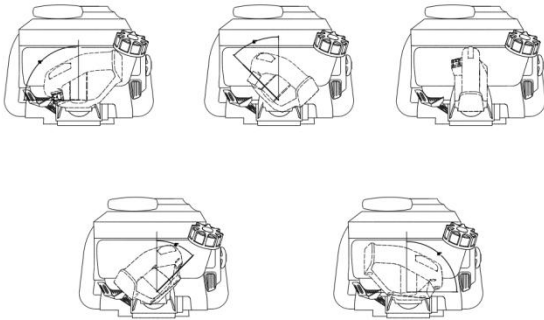
The handle can be adjusted $\pm 90^\circ$ to left and right side according to the required cut.



1. Pull the unlock button out and hold it in its position



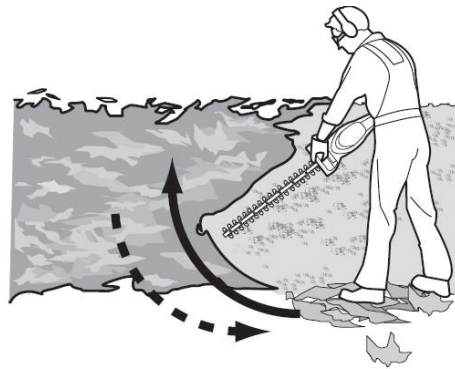
2. Turn the handle in desired direction to the end. Make sure the handle engages in position.



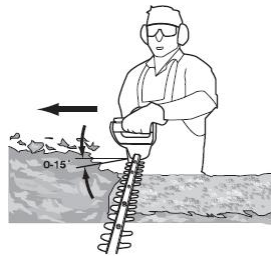
- Do not press the throttle during this operation!

■ Hedge Trimming Techniques

- Trimmer sides of a hedge first, and then the top.
- Adjust the handle so that it fits the intended cut and start the product as described.
- Cut and remove branches exceeding the cutting capacity (max. 27 mm) of this product using a proper pruner before operation.
- Move the cutting blade lightly through the cutting surface in a sweeping motion following the shape of the hedge or shrub. A slight tilt downwards of the cutting blade in the direction of motion is recommended for optimum cutting performance.
- Do not to rush and do not attempt to cut too much with one stroke of the cutting blade.
- First cut both sides from the bottom cutting upwards to the top. This will prevent any of the cuttings falling into the path of the area still to be cut



- Cut in a number of stages if the area is particularly long to achieve a better result; smaller cuttings will allow for easy composting.



⚠ 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 hedge-trimmer's power take-off. Do not use it for pruning trees or cutting grass.
- Use only as much throttle as is needed to do the job. Excessive engine speed is unnecessary.
- Avoid cutting thick branches, for which will damage the blades and shorten the life of drive systems.
- Tilting the trimmer 5 to 10° to the cutting object will make the job easy and bring a good result.
- Always keep your body to the carburetor side of your trimmer, never on the muffler side.

7. Maintenance

	System/components	Procedure	Before use	Every 25 hours after	Every 50 hours after	Every 100 hours after	Note
ENGINE	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 carburetor if necessary
	spark plug	clean and readjust plug gap			✓		GAP: 0.6 ~ 0.7 mm replace, if necessary
	cylinder fins, intake air cooling vent	clean		✓			
	muffler, spark arrester, cylinder exhaust port	clean				✓	
TRIMMER	throttle lever, ignition switch	check operation	✓				
	cutting parts	replace if something's wrong	✓				
	gear case	grease		✓			
	screws/nuts/bolts	tighten/replace	✓			✓	not adjusting screws
	debris guard	make sure to attach	✓				

WARNING

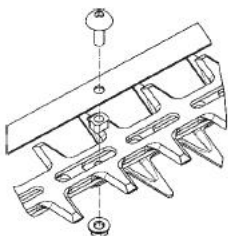
- Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.

■ BLADE

- Check the blade and the fasteners for looseness, cracking, or bending.
- Check the cutting edges and reform with a flat file.

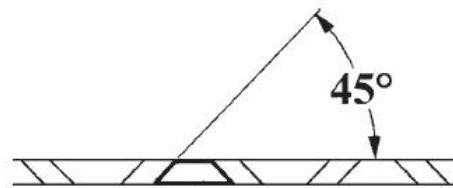
Point:

1. Keep the end corner sharp.
 2. Round the root of the edge.
 3. Do not use water when using a grinder.
- You need not to adjust the gap between upper blade and lower blade as this product is designed to have optimal gap when it is properly set up.



- (1) Bolt
- (2) Plate
- (3) Spacer
- (4) Nut

■ SHARPENING



Always keep the file or sharpener at an angle of 45° to the blade, and:

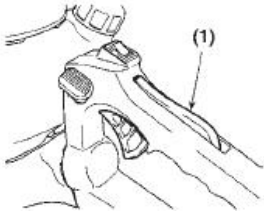
- Always grind in the direction of the cutting edge;
- Note: files cut only in one direction; lift the file from the blade when returning to start a new pass;
- Remove all burr from the edge of the blade with a slip stone;
- Remove as little material as possible;
- Before refitting the sharpened blades, remove filings and then apply grease.

Do not try to sharpen a damaged blade: change it or take it to a Service dealer.

■ SAFETY LOCK

- **Stop operation when the safety lock is defective.**

- Safety lock is the device not to accelerate the throttle lever without intention. While pushing the safety lock, you can accelerate the throttle lever.

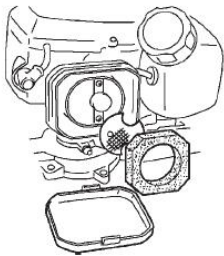


(1) Safety lock

1. Check if the throttle lever does not move when you do not push the safety lock.
 2. Check if the throttle lever moves when you grasp or release it while pushing the safety lock.
 3. Check if the safety lock returns to its original position when you release your hand from safety lock.
- If you find any defects at the checks above, contact your nearest servicing dealer for repair.

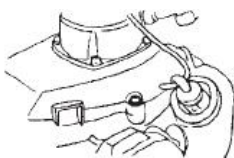
■ AIR FILTER

- 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.



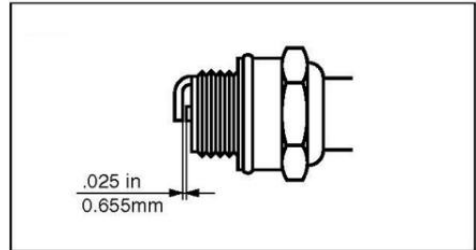
■ FUEL FILTER

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



■ SPARK PLUG

- Starting failure and mis-firing are often caused by a fouled spark plug. Periodically clean the spark plug and check that the spark gap is in the correct range.
- When you take off the spark plug, twist (1) and pull off the cap (2).



! IMPORTANT

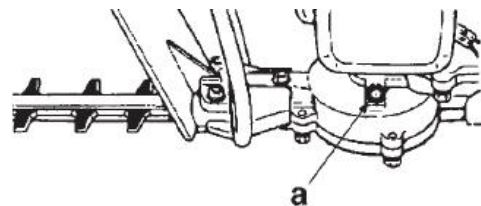
- Note that using any spark plugs other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

TIGHTENING TORQUE: 9.8~11.8 N.m

■ GEAR CASE

- Supply multi-purpose grease at every 25 hours of use.

1. Use a grease pump.
2. Feed grease until it comes out of the base of blades(a).



■ MUFFLER

! WARNING

- **Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, do not use the brush cutter and have it repaired immediately.**
- **Note that failing to do so may result in the engine catching on fire.**

8. Storage

• Aged fuel is one of major causes of engine starting failure. Before storing the unit, empty the fuel tank and run the engine until it uses all the fuel left in the fuel line and the carburetor. Store the unit indoor taking necessary measures for rust prevention.

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

9. Transportation

1. When hand-carrying the product, cover over the cutting part if 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.

10. Troubleshooting guide

Case 1. Starting failure

CHECK	PROBABLE CAUSES	ACTION
fuel tank	→ incorrect fuel	→ drain it and with correct fuel
fuel filter	→ fuel filter is clogged	→ clean
carburetor adjustment screw	→ out of normal range	→ adjust to normal range
spark plug	→ spark plug is fouled/wet	→ clean/dry
	→ plug gap is incorrect	→ correct (GAP: 0.6~0.7mm)
	→ disconnected	→ retighten

Case 2. Engine starts but does not keep running/Hard re-starting.

CHECK	PROBABLE CAUSES	ACTION
fuel tank	→ incorrect fuel or staled fuel	→ drain it and with correct fuel
carburetor 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
