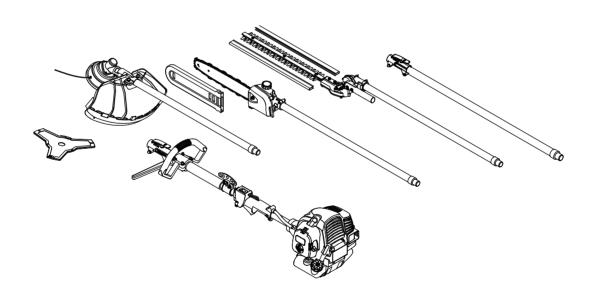


MULTI TOOLS TT-MT2600-3



DEAR CUSTOMER



PRODUCT SPECIFICATIONS

TECHNICAL SPECIFICATIONS	
Model	TT-MT2600-3
Handle Type	Р
Power Transmission Method	Automatic Centrifugal Clutch, Spiral Equipment
Applied Sheet	3T
Blade Rotation Direction	To the left (from the operator's perspective)
Туре	Single Cylinder Cooled 2-Stroke Gasoline Engine
Volume Displacement	52 CC
Carburetor	Piston Valve
Start Procedure	Recoil Starter
Stop Method	Sparks Primary Short Circuit
Used Fuel	Lubricating Oil Gasoline Blend (25:1)
Used Lubricating Oil	2-Stroke Engine Oil
Tank Capacity (L)	1000 ML

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SYMBOLS

Read and keep this manual

Please read carefully all instructions within this manual. Failure to follow all safety warnings can result in serious personal injury.

IMPORTANT: Some of the following symbols may be used on your tool.

SYMBOL	DEFINITION			
\triangle	Warnings.			
	Read the instructions.			
@	Wear head, eyes and ears protection.			
	Wear safety footwear.			
	Wear protective gloves.			
	Danger: Risk of fire explosion.			
	Keep away from fire.			
	The port of refuel the "MIX FUEL".			
	Beware of thrwon objects.			
	Hot surface: Risk of burn.			
15m (60m)	Keep all childrens, bystanders and helpers 15 meters away from the brush cutter.			
	The direction to open the choke. Position: AIR CLEANER COVER			
	The direction to close the choke. Position: AIR CLEANER COVER			
CE	With this symbol the manufacter confirms that this tool is in accordance with applicable european directives.			
Z	Waste electrical products should not be disposed of with household waste.			

GENERAL & SPECIFIC SAFETY INSTRUCTIONS

- 1. Read this manual carefully until you completwly 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 wich cannot be answered herein, contact the dealer from whom you purchased the product.
- 3. Always be sure to include this manual when selling, leding 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 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)
- 3.Do not wear loose clothing, jewerly, short, trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so its 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:
- When the ground is slippery or when you cant 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

- 1. You should neve use te product when under the influence of alcohol, when suffering from exhaustation 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 judment 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, respective stress injury (RSI) could occur. if you feel disconfort, 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 8 a.m. and 5 p.m. weekends.

IMPORTANT

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 the other people working so as to maintain a distance between each person suffcient ensure safety.
- 2. Check the condition of working area to void any accident by hitting hidden obstacles such as stumps, stones, cans, or broken grass.



/ iwarning!:

Remove any obstacles before beginning work.

STARTING THE ENGINE

- 1. Keep bystanders and animals at least 50 feet (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.



/!\ iWARNING!:

Never place the throttle into 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 postion. If it continues rotate even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized servicing dealer to repair.

USING THE PRODUCT



/ iwarning!:

Remove any obstacles before beginning work.

- 1. Grip the handles firmly with both hands using your whole hand. Place your feet sligthly apart (sligthly 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.



iWARNING!:

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

HANDLING FUEL

- The engine of the product is designed to run on a mixed 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 10 feet (3m) or more away from where it was refueled before turning on the engine.

TRANSPORTATION

- 1. When hand-carrying the product, cover over the cutting part if necessary, lift up the product and carry 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.



iWARNING!:

- When you finish cutting in one location and wish to continue work in another spot, turn off the engine, lift up the unit and carry it paying attention to the blade.
- Never forget to place the protective cover over the blades.
- When hand carrying the product, cover over the cutting part if necessary, lift up the product and carry it paying attention to the blade.
- 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.

KICKBACK SAFETY PRECAUTIONS FOR CHAIN SAW USERS



iWARNING!:

• Kickback may occur when th nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lighting fast reverse reaction kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw, which could result in serious personal injury.

Do not rely exclusively on the safety devices built into your saw. As a chain saw useryou should take several steps to keep cutting jobs free from accident or injury.

- With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
- Keep a good grip on the saw with both hands, the right hand on the rear handle, and the left hand
 on the front handle, when it engine is running. Use a firm grip with thumbs and fingers encilcing the
 chain saw handles. A firm grip will help to reduce kickback and maintain control of the saw.
- Make certain that the area in which you are cutting is free from obstructions. Do not let the nose of the guide bar contact a log, branch or any other obstruction which could be hit while you are operating the saw.
- Cut at high engine speeds.
- Follow the manufacturers sharpening and maintenance instructions for the saw chain.
- Only use replacement bars and chains specified by the manufacturer or the equivalent.



iWARNING!:

Make sure the chain and sprocket are correctly adjusted before operating the pruner. Never attempt chain adjustment with the engine running! Always make sure the cutting attachment is properly installed and firmly tightened before operation.

Never use a cracked or warped guide bar. Replace it with a serviceable one and make sure it fits properly.

If a saw blade should bind fast in a cut, shut off the engine immediately.

Push the branch or tree to ease the bind and free the blade.

Do not operate the pole pruner with the muffler removed.

When cutting a limb that is under tension, be alert for springback so that you will not bestruck by the moving limb.

Always stop the engine immediately and check for damge if you strike a foreign object or if the machine becomes tangled. Do not operate with broken or damaged equipment.

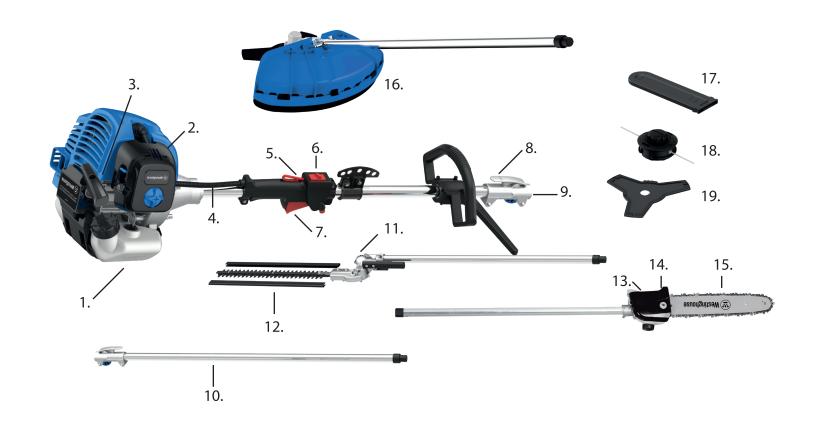


IMPORTANT!:

Do not make unauthorized modifications or substitutions to the guide bar or chain. Never allow the engine to run at high RPM without a load. Doing so could damage the engine. Keep the pruner as clean as possible.

Keep it free of loose vegetation, mud, etc.

NAME OF PARTS



OVERVIEW

- 1. Fuel Tank
- 2. Air Filter
- 3. Starter Motor
- 4. Throttle Cable
- 5. Harness Clip
- 6. Throttle Set Button
- 7. Throttle Trigger
- 8. Loop Handle

- 9. Quick Joint
- 10. Extension Bar
- 11. Transmission
- 12. Trimmer Blade
- 13. Transmission
- 14. Chain Cover
- 15. Bar and Chain
- 16. Hand Guard

- 17. Bar and Chain Cover
- 18. Nylon Head
- 19. 3T Head

MOUNTING ENGINE



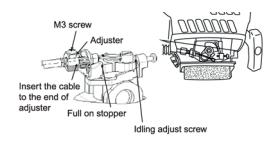
- 1. Push the shaft tube toward the clutch housing and rotate it by hand to check that the drive shaft is engaged with gears.
- 2. Insert the shaft tube into the clutch housing until it bottoms, and align the postioning holes on the clutch housing and the shaft tube and install the screw. When difficult to engage, twist the engine slightly.
- 3. Fasten the clamp securely with two screws.

IMPORTANT

Tighten the screws gradually by turns.

CONNECTING THROTTLE WIRE

- 1. Remove the air claner cover.
- 2. Connect the end of the throttle wire to the joint on the top of the carburetor.



- 1. Connect throttle wire with carburetor. Insert the cable to the of adjuster fix the throttle cable by
- 2. tightening M3 screw. (Tightening torque: 0.4 ~ 0.8 N.m.) Make sure the TOPPER PLATE of carburetor moves to contact with DLING ADJUST SCREW and the WING-ARM of carburetor moves to contact with ULL ON STOPPER by gripping throttle lever.

CONNECTING SWITCH WIRES

Connect the switch wires between the engine and the main unit. Pair the wires of the same color.

SUSPENSION POINT

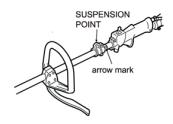
NOTES

Be the SUSPENSION POINT in the location of the arrow mark.

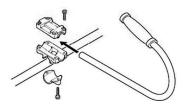
INSTALLING HANDLE

NOTE

The handle is put during the arrow mark.



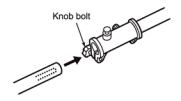
Mount the handle to the shaft tube and suspension point it at a location that is comfortable to you.



Instan the J-shaped handle to the shaft tube and clamp at a position best for your job.

JOINT ATTACHMENT

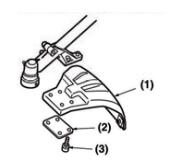
Insert the attachment to the main shaft. Lighten the knob bolt securely.



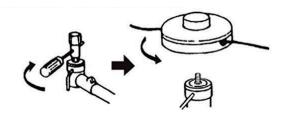
INSTALLING CUTTING ATTACHMENT GUARD

Pul the cutting attachment guard on the gearbox, attach it with the 4 screws and hardware provided.

- 1. Cutting attachment guard
- 2. Plate
- 3. Screw



INSTALLING CUTTING HEAD



- 1. Push the shaft tube toward the clutch housing and rotate it by hand to check that the drive shaft is engaged with gears.
- 2. Insert the shaft tube into the clutch housing until it bottoms, and align the postioning holes on the clutch housing and the shaft tube and install the screw. When difficult to engage, twist the engine slightly.
- 3. Fasten the clamp securely with two screws.

HARNESS



iWARNING!:

ALWAYS WEAR THE PROVIDED HARNESS WHEN USING THE MACHINE!

Always make sure the machine is hooked securely to the harness.

If you don't, you will be unable to control the machine safely. This can result in injury to yourself or others. Never use a harness with a detective quick release or any other damage.

HOW TO WEAR

Wear the provided harness without twisted bands with the hanger on your right side.

1. Hanger



- 1. Hook your machine to the hanger.
- 2. Adjust the bands of the harness to have the blade parallel to the ground when standing in your normal working position to provide you most ettectiveness and comfort on operating the machine.
- 3. In order to preven! the hanger position to change during operation, turn up the extra part of the band from the buckle.
- 4. When correctly adjusted, check the corree! working of the harnesses' QUICK RELEASE.



QUICK RELEASE

The harness is equipped with a "QUICK RELEASE" devise. To release the machine from the harness in emergency situations, please follow the procedure as explained below.



iIMPORTANT!:

Make sure to check proper working of the QUICK RELEASE device BEFORE operating the machine. Make sure to hold the unit securely when using the QUICK RELEASE.

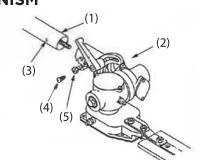
While holding the unit by your right hand securely, press both sides of the buckle. sides of the buckle.

1. Buckler



ATTACHING THE TRIMMING MECHANISM

- 1. Main Pipe
- 2. Trimming Mechanism
- 3. Screw hole
- 4. Screw
- 5. Fastening Bolt



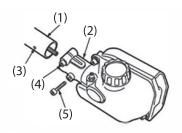
- 1. Remove the screw screwed into the end of the trimming mechanism.
- 2. Insert the end of the trimming mechanism into the main pipe.
- 3. Line up the hole on the end of the trimming mechanism into which the screw is to be inserted with the hole on the main pipe, and screw the screw firmly in.
- 4. Using a wrench, screw in the bolt provided to fix the trimming mechanism into place.

BALANCE UNIT

- 1. Pull on strap and attach unit to strap.
- 2. Depending on the working posture, slide clamp up or down until unit balances and the strap fits your body.

ATTACHING THE PRUNING MECHANISM

- 1. Main Pipe
- 2. Transmission
- 3. Screw Hole
- 4. Fastening Bolt
- 5. Bolt



- 1. Remove the cap on the end of the main pipe.
- 2. Remove the screw screwed into the end of the transmission.
- 3. Insert the end of the gear case into the main pipe.
- 4. Line up the hole on the end of the transmission into which the screw is to be inserted with the hole on the main pipe, and screw the screw firmly in.
- 5. Using a wrench, screw in the bolt provided to fix the mechanism into place.

A standard package contains the items as shown below.

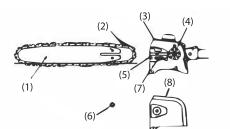
1. Guide Bar 6.Nut

7. Chain Tensioner Nut 2. Saw Chain

8. Chain Cover 3. Transmission

4.Sprocket

5. Chain Tension Adjust Screw



Install the guide bar and the saw chain on the transmission as follows.



iwarning!:

The saw chain has very sharp edges. Use protective gloves for safety.

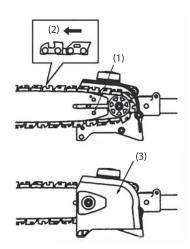
- 1. Loosen a nut and remove the chain cover.
- 2. Mount the guide bar then lit the saw chain around the bar and sprocket.



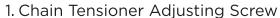
iWARNING!::

Pay attention to the correct direction of the saw chain.

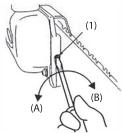
- 3. Fit the chain tensioner nut into the lower hole of the guide bar, then install the chain cover, and lasten the mounting nut to finger tightness.
- 1. Hole
- 2. Moving Direction
- 3. Chain Tensioner Nut



4. Adjust the chain tension by turning the tensioner screw until the tie straps just touch the b ottom side of the bar raíl.

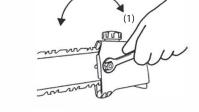


- a.Loosen
- b. Tighten



5. Tighten the mounting nut securely with the bar tip held up (TOROUE: 8.9 ~ 11. 7 N.m./90 ~ 120 kg-cm). Toen check the chain for smooth rotation and corree! tension while moving it by hand. If necessary, readjust.

1. Tighten





iWARNING!::

It is very important to maintain the proper chain tension. Rapid wear of the guide bar or the chain coming off easily can be caused by improper tension. Especially when using a new chaln, take good care of it since it should expand when first used.

BALANCE UNIT

- 1. Pull on strap and attach unit to strap.
- 2. Depending on the working posture, slide clamp up or down until unit balances and the strap fits your body.

FUEL AND CHAIN OIL



iWARNING!::

Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (1 O ft) away from the fueling point before starting the engine.

1L of pretrol add 40 ml of 2-cycle engine oil.



RECOMMENDED MIXING RATIO GASOLINE 25: OIL 1 (when using genuine oil)

Exhaust emission are controlled by the fundamental engine parameters and components (eq.,carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.

These engines are certified to operate on unleaded gasoline.

If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur. Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment. Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

HOW TO MIX FUEL



:WADNING!..

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.
- 4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
- 5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
- 6. Indicate the contents on outside of container for easy identification.

FUEL AND CHAIN OIL

FUELING THE UNIT

- 1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
- 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.



iWARNING!:

- 1. Select flat and bare ground for fueling.
- 2. Move at least 1 O feet (3 meters) away from the fueling point before starting the engine.
- 3. Stop the engine before refueling the unit. All that time, be sure to sufficiently agitate the mixed gasoline in the container.

FOR YOUR ENGINE LIFE, AVOID:

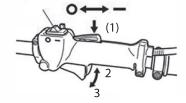
- 1. FUEL WITH NO OIL (RAW GASOLINE) II will cause severe damage to the internal engine parts very quickly.
- 2. GASOHOL It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
- 3. OIL FOR 4-CYCLE ENGINE USE It can cause spark plug fouling, exhaust port blocking, or pistan ring sticking.
- 4. Mixed fuels which have been left unused for a period of one month or more may clog the carburetor 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 alter rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
- 6. In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

NOTE

Do not use wasted or regenerated oil that can cause damage to the oil pump.

Set the stop switch to the - position. Set the throttle trigger to the start position (1-2-3). Place the unit on a flat, firm place. Keep the cutting head clear of everything around it.

1. Stop Switch



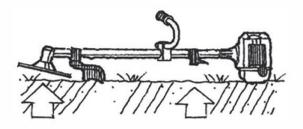
While holding the unit firmly, pull out the starter rope quickly until engine fires.



\bigwedge

iWARNING!:

The product is equipped with a centrifuga! 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.



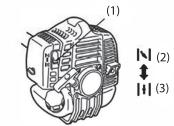


IMPORTANT!:

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.

- 1. Stop Switch
- 2. Close
- 3.Open



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

NOTE

- 1. When restarting the engine immediately alter 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 alter 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 stop switch to the STOP position.



IIMPORTANT!:

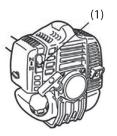
Except for an emergency, avoid stopping the engine while pulling the throttle lever.



IIMPORTANT!:

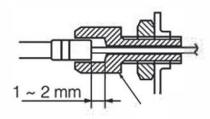
When it doesn't stop all the stop switch, move the choke level to the closed position.

1. Choke Lever



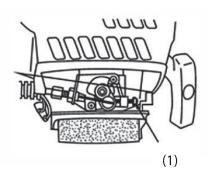
ADJUSTING THROTTLE CABLE

The normal play is 1 or 2 mm when measured at the carburetor side end. Read just with the cable adjuster as required.



ADJUSTING IDLING SPEED

1. Idle Adjusting Screw



- 1. When the engine tends to stop frequently at idling mode, turn the adjusting screw clockwise.
- 2. When the cutting head keeps rotating alter releasing the trigger, turn the adjusting screw counter-clockwise.

NOTE

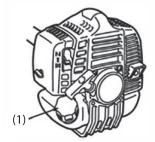
Arm up the engine before adjusting the idling speed.



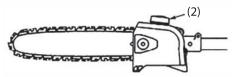
iWARNING!:

The cutting head will start rotating upon the engine starts.

- 1. Cuando el motor tiende a detenerse con frecuencia en el modo de ralentí, gire el tornillo de ajuste en el sentido de las agujas del reloj.
- 1. Fuel



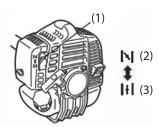
- 1. Feed the chain oil into the oil tank and tighten the cap securely, too..
- 1. Fuel
- 2.Chain Oil



- 2. Rest the unit on a flat, firm place. Keep the cutting head off the ground and clear of surrounding objects, as it will start rotating upan starting of the engine.
- 3. Push the primer several times until overflown fuel flows out in the clear tube..



- 4. Move the choke lever to the closed position.
- 1. Choke Lever
- 2. Close
- 3.Open



CUTTING WOAK (LINE HEAD USAGE)



iwarning!:

- 1. Always wear eye protection such as safety goggles. Never lean over the rotating cutting head. Rocks or other debris could be thrown into eyes and face and cause serious personal injury.
- 2. Keep the cutting attachment guard in place at all times when the unit is operated.



- 3. You can avoid thrown debris by sweeping from your left to the right.
- 4. Use a slow, deliberate action to cut heavy growth. The rate of cutting motion will depend on the material being cut. Heavy growth will require slower action than will light growth.
- 5. Never swing the unit so hard as you are in danger of losing your balance or control of the unit. Try to control the cutting motion with the hip rather than placing the full workload on the arm and hands.
- 6. Take precautions to avoid wire, grass and dead, dry, long-stem weeds from wrapping around the head shaft. Such materials can stall the head and cause the clutch to slip, resulting in damage to the clutch system if repeated frequently.

CUTTING WOAK (LINE HEAD USAGE)

Our brush cutters are equipped with a semi-auto type nylon line head that allows the operator to advance the line without stopping the engine. When the line becomes short, lightly tap the head on the ground while running the engine al full throttle Each time the head is bumped, the line advances about 1 inch (25.4 mm). For better effect, tap the head on bear ground or hard soil. Avoid bumping in thick, tall grass as the engine may stall by overload.

OPTIONAL BLADE USAGE

CUTTER APPLICATION	9" 8-Tooth:	9" 4-Tooth:	Nylon Line Head
CHART	•	•	-
Heavy Weeds	0	_	
Light Weeds <u>编统</u>		0	0
Grass Nivara			0

CUTTING WOAK (LINE HEAD USAGE)

Choose a suitable recommended cutting attachment according to the object to be cut.

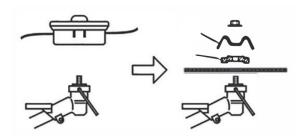
When replacing blade always be sure to use products, which have been certified by your supplier.



iWARNING!::

When sharpening, removing, or reattaching the blade, be sure to wear thick, sturdy gloves and use only proper tools and equipment to prevent injury.

SET UP



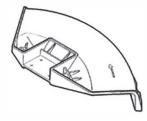
- 1. Detach the line head assembly completely.
- 2. Put on the blade, making the marked side tace the holder, put on the outer holders, and lasten the blade with the blade nut.

OPTIONAL BLADE USAGE



iWARNING!::

Change the cutting attachment guard, which is suitable for the metal blade.



1.5 ~ 2.0 N.m.

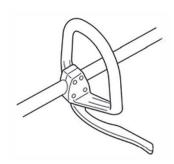
TIGHTENING TORQUE:

(0.15 ~ 0.2 kg. m.)



iwarning!::

Change the cutting attachment guard, which is suitable for the metal blade.



STARTING THE ENGINE



iWARNING!:

The product is equipped with a centrifuga! 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 to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.

CUTTING METHOD

- 1. Use the front left side cutting.
- 2. Guide the blade from your right to left with it tilted slightly to your left.



- 1. When mowing a wide area, start working from your left end to avoid interference of cut grass.
- 2. The blade may be seized by weeds if the engine speed is too low, or the blade cuis too deep into weeds. Adjust the engine speed and cutting depth according to the condition of object.



iWARNING!:

If the grass or other object gets caught in the blade, or if the unit starts to shake or vibrate, turn off the engine and check the whole unit. Change the blade if it has been damaged. Turn off the engine and make sure the blade has completely stopped before checking the blade, and removing any object gol caught in.

OPERATION

- 1. Check the bolt to lasten the blade and be sure the bolt has no fault, and no abrasion.
- 2. Be sure that the blade and the holder have been fastened according to instruction and that the blade turns smoothly without abnormal noise.





iWARNING!:

The rotating parts fastened incorrectly may cause serious accident to the operator. Make sure that the blade is not bent, warped, cracked, broken or damaged. If you find any error to the blade, discard it and replace with a new one, which is certified by your supplier.

By using the shoulder strap, hang the unit on your right side. Adjust the strap length so that the cutting head may become parallel to the ground.



OPTIONAL BLADE USAGE



/ iwarning!:

Make sure to use shoulder strap and cutting attachment guard. If not, it is very dangerous when you slip or lose your balance.



WARNING!

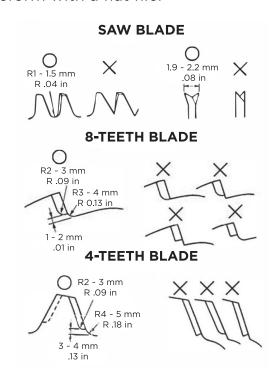
Blade thrust can cause serious personal injury. Carefully study this section. It is important that you understand what causes blade thrust, how you can reduce the chance of blade thrust and how you can remain in control of the unit if blade thrust does occur.

- 1. What causes blade thrust:
 - blade thrust can occur when the moving blade contacts an object that it cannot cut. This contact causes the blade to stop for an instan! and then suddenly move or ounce away from the object that was hit. The operator can lose control of the unit and the blade can cause serious personal injury to the operator or any person nearby if the blade contacts any par! of the body.
- 2. How you can reduce the chance of blade thrust:
- a. Recognize that blade thrust can happen. By understanding and knowing about bounce, you can help eliminate the element of surprise.
- b. Cut fibrous weeds and grass only. Do not let the blade contact materials it cannot cut such as hard, woody vines and bushes or rocks, fences, metal, etc.
- C. Be extra prepared for bounce if you must cut where you cannot see the blade making contact such as in areas of dense growth.
- d. Keep the blade sharp. A dull blade increases the chance of bounce.
- e. Avoid feeding the blade too rapidly. The blade can bounce away from material being cut if the blade is fed faster than its cutting capability.
- f. Cut only from your right to your left.
- g. Keep your path of advance clear of material that has been cut and other debris.
- 3. How you can maintain the best control:
- a. Recognize that blade thrust can happen. By understanding and knowing about bounce, you can help eliminate the element of surprise.
- b. Cut fibrous weeds and grass only. Do not let the blade contact materials it cannot cut such as hard, woody vines and bushes or rocks, fences, metal, etc.

MAINTENANCE

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 comer sharp.
- 2. Round the root of the edge, using a round file.
- 3. Do not use water when using a grinder.



iWARNING!:

It is recommended that filing should be done by professionals. Especially regarding filing the saw blade, leave it to the professionals.

TRANSPORTING THE UNIT

When you finish cutting in one location and wish to continue work in another spot, turn off the engine, lift up the unit and carry it, paying attention to the blade. Never forget to place the protective cover over the blades. When transporting the unit over long distances, detach the blade and lasten the unit by ropes.



WARNING!

This product is equipped with extremely sharp blades, and when used improperly these blades can be extremely dangerous and improper handling can cause accidents, which may in turn lead to serious injury or death. For this reason, you should always be careful to follow the following instructions when using your trimmer.

Never hold the trimmer in a way in which the blades are pointed towards someone else. Never allow the blades to come into proximity with your body while the engine of the trimmer is in operation. Always be sure to turn off the engine before changing the angle of the blades, removing branches which have become stuck in the blades, or at any other time when coming into close proximity with the blades. Always wear work gloves made of leather or some other sturdy material when using the trimmer. Always place the blade cover provided with the trimmer over the blades when not in use.

Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your trimmer.



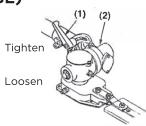


:IMPODTANTI:

The thickness of branches, which may be cut using this trimmer, is limited to up to approximately 3/16" (5 mm). Never try to cut branches thicker than this, as doing so may result in damage to the trimmer.

CUTTING WOAK (LINE HEAD USAGE)

- 1. Clamp Lever
- 2. Trimming Mechanism

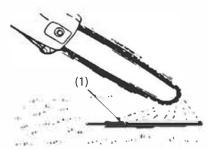


- 1. Stop the engine.
- 2. Turn the bolt located on the top of the trimming mechanism counter-clockwise to loosen it.
- 3. Adjust the angle of the blades to the desired angle, and then fix the bolt firmly back into place.

CHECKING OIL SUPPLY

Alter starting the engine, run the chain at medium speed and see if chain oil has scattered off, as shown in the figure.

1. Chain Oil



NOTE

The oil reservoir has a capacity sufficient to provide about 40 minutes of cutting time (when set to deliver the mínimum flow rate, or about as long as youl get from a tank of fuel). Be sure to refill the oil tank every time when refuelling the saw.



iWARNING!:

Never fill the oil reservoir nor adjust the oiler with the engine running.

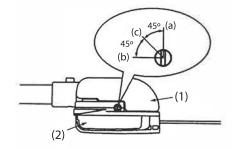


IMPORTANT!:

An increase in bar oil flow rate will speed oil consumption, requiring more frequent checks on the oil reservoir. To ensure sufficient lubrication, it may be necessary to check the oil level more frequently than at fuel tank refills. The guide bar and chain are lubricated automatically by a pump that operates whenever the chain rotales. The pump is set at the factory to deliver a minimum flow rate, but it can be adjusted in the field. A temporary increase in oil flow is often desirable when cutting things like hardwood or wood with a lot of pitch.

Adjust the pump as follows:

- 1. Stop the engine and make sure the stop switch is in the OFF position.
- 2. Place the unit on its side with the oil reservoir up.
- 1. Oil Tank
- 2. Chain Cover





IIMPORTANT!:

The oil flow adjusting screw must be pressed in slightly in order to turn. Failure to do so could damage the pump and screw.

- 3. With a screwdriver, push in on the oil flow rate adjusting screw and turn in the desired direction (there are three incremental settings):
- a. Clockwise-decrease lubrication
- b. Counter clockwise-increase lubrication
- c. Middle



iWARNING!:

Always wear work gloves made of leather or some other sturdy material when using the polesaw. Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your polesaw.



	System/Components	Procedure	Before use	Every 25	Every 50	Every 100	Notes
				hours after	hours after	hours after	
	Fuel leaks, fuel spillage	wipe out	~				
	Fuel tank, air filter, fuel filter	inspect / clean	✓	~			replace if necessary
Ιш	Idle adjusting screw	see adjusting	V				replace carburetor
ENGINE	lidie adjusting screw	idling speed	•				if necessary
	Spark plug	clean and readjust					GAP: 06 ~ 0.7 mm
	Spark plug	plug gap			~		replace, if necessary
	cylinder tins, intake air cooling vent	clean		>			
	muffler, spark arrester, cylinder exhaust port	clean			✓		
	Throttle trigger, stop switch	check operation	~				
1 ~	cutting parts	replace if something is wrong	~				
#	transmission	grease		/			
TRIMMER	screws / nuts / bolts	tighten/replace	~			~	not adjusting screws
	cutting attachment guard	make sure to attach	~				
-	oiling port	clean	✓				
	guide bar	clean	✓				
	sprocket	inspect/replace			~		
	saw chain	inspect/sharp	✓				



iWARNING!:

Make sure that the englne 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.

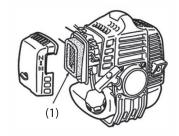
AIR FILTER

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

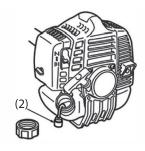
FUEL FILTER

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

1. Air Filter

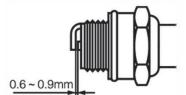


2. Fuel Filter



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 specified by your supplier.





iIMPORTANT!:

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

9.8 ~ 11.8 N.m.

(1 ~ 1.2 kg. m.)



MUFFLER!:

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 tire.

INTAKE AIR COOLING VENT



iMUFFLER!:

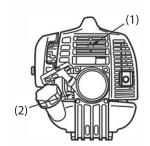
Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns. When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any wood chips or leaves which have attached themselves to the brushcutter. Failing to do so could cause the muffler to become overheated and that in turn could cause the engine to catch on tire. Always make sure that the muffler is clean and free of wood chips, leaves, and other waste befare use. Check the intake air coolling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage, and remove any waste which has attached itself to the brushcutter. Note that it is necessary to remove the engine cover in order to be able to view the upper part of the cylinder.



ilmportant!:

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

- 1. Cylinder
- 2.Intake air cooling vent (back)



PROCEDURES TO BE PERFORMED AFTER EVERY 100 HOURS OF USE



- 1. Remove the muffler, insert a screwdriver into the vent. and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port all 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 it has, wipe it away using oil-free, lead-free gasoline.

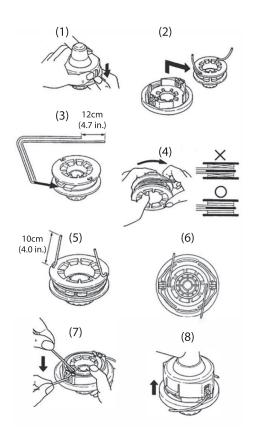
REFILLING TRIMMING LINE

1. For replacement line, use a diameter of 2.4mm(.095in). The spool is capable for a line up to 6m(20ft) on the 10cm(4 head. Avoid using a larger line as it may cut down the trimming performance.

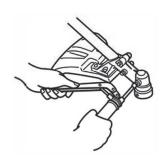


iIMPORTANT!:

- 2. Pinch the slotted area on the both sides of the spool housing to unhook the bottom cap.
- 3. Take out the spool and pull off the old line Pul one end of new line through the spool holes and pull it until the length is equal between each part of the line.
- 4. Wind up the line in the correct direction as indicated on the spool.
- 5. Hook each end of the line in the slot on the edge of the spool, and then pull the ends through the eyelets on the housing. Make sure that the spring and the washers are in place.
- 6. While holding the spool against the housing, pull the line ends to release them from the slot.
- 7. Line up the slot on the bottom cap with the hook on the housing, press the cap against the housing until it clicks.



ANGLE TRANSMISSION

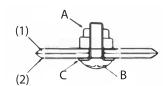


The reduction gears are lubricated by multipurpose. Lithium-based grease in the angle transmission. Supply new grease every 25 hours of use or more often depending on the job condition. Remove the cutter holders before installing new grease to arrange for old grease to exit.

BLADES

When refilling the tank or resting, it is often a good idea to use the time to oil the cutting blades. If a gap exists between the upper and lower blades, follow the procedure below to adjust them so that they fit more closely together.

- 1. Upper blade
- 2.Lower blade



- 1. Loosen lock nut (A) as shown in the diagram.
- 2. Tighten screw (B) fully, and then turn one-third to one half of a rotation backward.
- 3. While holding onto the screw to keep it in position, tighten the lock nut.
- 4. Check to make sure that the flat washer (C) is loose enough so that it may be turned by pressing on it with a finger.

NOTE

Screwing in the screw too tightly may make it impossible for the blades to move. Conversely, not screwing in the screw tightly enough may make the blades of the trimmer feel dull and cause leaves and branches to become caught in the blades of the trimmer.

QUICK TIP

If the blades become so worn down that it is no longer possible to eliminate the gap between them, you should contact the authorized servicing dealer from which you purchased your trimmer to have the blades resharpened or replaced.

TRANSMISSION

The reduction gears are lubricated by multipurpose, lithium-based grease in the transmission. Supply new grease every 25 hours of use or more often depending on the job condition. When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the transmission.

(1)

1. Grease Fittling

OILING PORT

Dismount the guide bar and check the oiling port far clogging.

1. Oiling Port

GUIDE BAR

Remove sawdust in the bar groove and the oiling port.

- 1. Groove
- 2. Oiling Port

(Type: Sprocket nose)

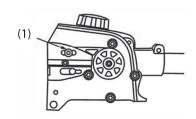
Grease the nose sprocket from the feeding port on the tip of the bar.

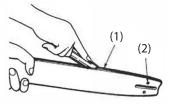
- 1. Grease Port
- 2. Sprocket

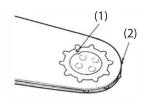
The bar rail should always be a square. Check far wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced.

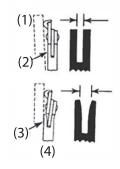


- 2.Gap
- 3.No Gap
- 4. Chain Tilts



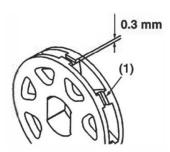






SPROCKET

Check far extensive wear, and replace it when the teeth are worn over 0.3 mm.



SAW CHAIN



iIMPORTANT!:

It is very important for smooth and safe operation to keep the cutters always sharp.

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw in.
- The cut way does not go straight.
- Vibration increases.
- Fuel consumption increases.

CUTTER SETTING STANDARDS:



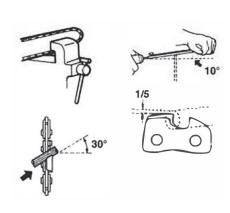
iIMPORTANT!:

Be sure to wear safety gloves.

Before Filling:

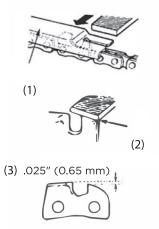
- Make sure the saw chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size far your chain.

Place your file on the cutter and push straightforward. Keep the file position as illustrated.



Alter every cutter has been set, check the depth gaugeand file it to the proper level as illustrated.

- 1. Appropriate gauge checker
- 2. Make the shoulder round
- 3. Depth gauge standard

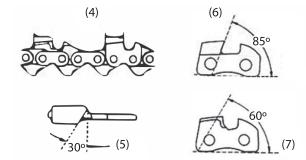




iWARNING!:

Be sure to round off the front edge to reduce the chance of kickback or tie-strap breakage.

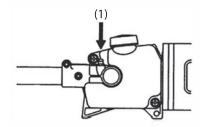
- 4. Cutter length
- 5. Filing angle
- 6. Side plate angle
- 7. Top plate cutting angle



TRANSMISSION

The reduction gears are lubricated by multipurpose, lithium-based grease in the transmission. Supply new grease every 25 hours of use or more often depending on the job condition. When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the transmission.

1. Grease Fitting



TRANSMISSION

The reduction gears are lubricated by multipurpose, lithium-based grease in the transmission. At every 20 hours of use, supply the transmission with new grease. Remove the cutter holders before installing new grease to arrange for old grease to exit.

NOTE

When removing and installing the cutter holder (a), use care not to allow any dirt and dust entering in to the transmission.

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.

TROUBLESHOOTING

Case 1: Starting Failure				
СНЕСК	PROBLEM 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		
Sparking (No Spark)	Sparking plug is fouled/wet	Clean/dry		
	Plug gap is Incorrect	Correct (Gap: 0.6~0.7mm)		
Spark Plug	Disconnected	Retighten		

Case 2: Engine starts but does not keep running / Hard re-starting.					
СНЕСК	PROBLEM CAUSES	ACTION			
Fuel Tank	Incorrect Fuel or Staled Fuel	Drain it and with correct fuel			
Carburetor Adjusment 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			