

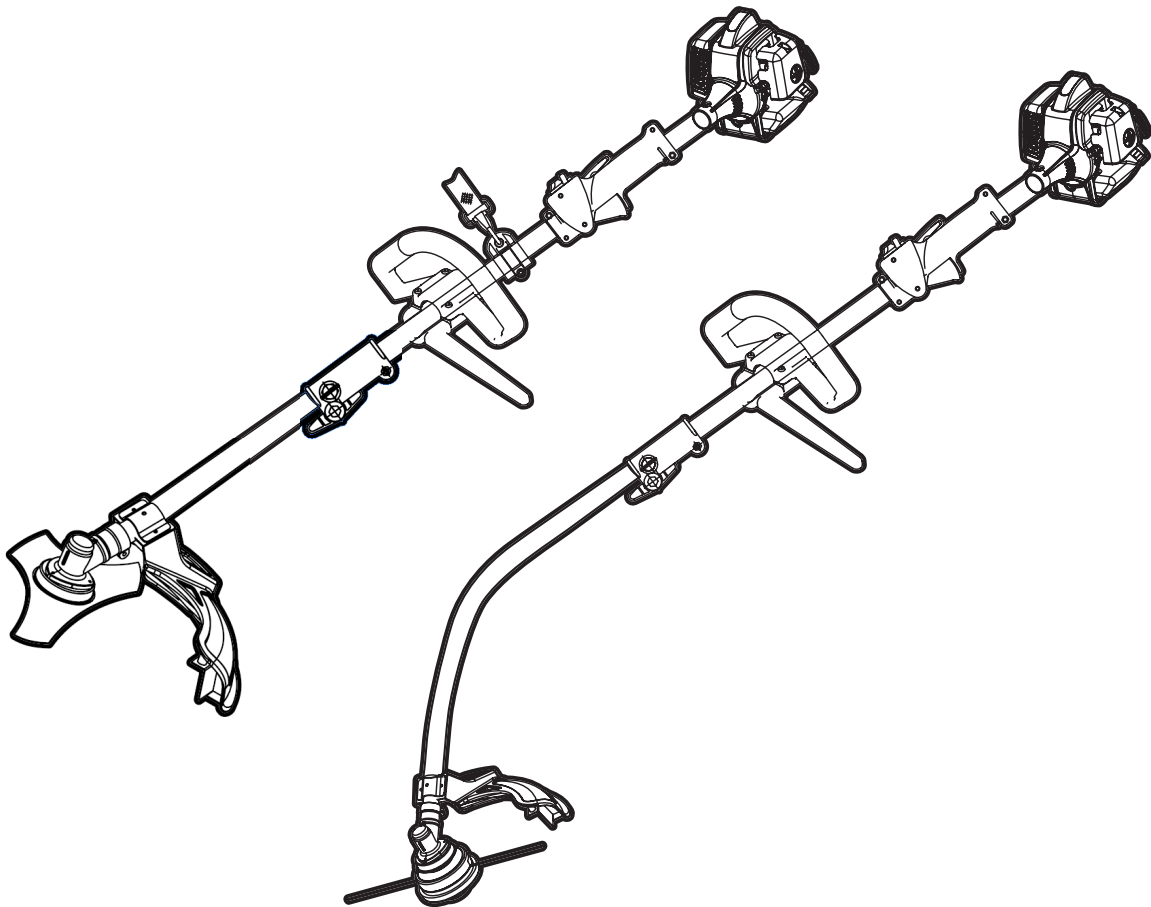
## OWNER'S MANUAL

### PETROL LINE TRIMMERS

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MT23C

MT23SS



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### IMPORTANT

To reduce risk of fire, burn hazard or other injury, please read these instructions carefully before assembling, operating and maintaining this machine. Keep this instruction manual in a safe place for future use.

This manual covers the Masport MT23C and MT23SS machines.



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# INTRODUCTION

Thank you for your purchasing the brush cutter of our Company. The present manual explains how to handle the brush cutter well. Before using it, please read this operator's manual carefully, operate the machine correctly and engage in your task safely.

By the way, due to changes of specifications, all details of your machine may not agree with this manual. Please understand accordingly.

This machine is only intended to be used to cut frutex, or soft vegetation.

## TECHNICAL DATA

| Model                      | MT23C                           | MT23SS         |
|----------------------------|---------------------------------|----------------|
| Model Number               | 553370                          | 553371         |
| Machine Type               | Bent Shaft                      | Straight Shaft |
| Engine Type                | HP23 - Air cooled 2-stroke EU V |                |
| Displacement               | 22.5cc                          |                |
| Maximum Engine Power       | 0.7/8000 kW/rpm                 |                |
| Engine Idle Speed          | 3200 ± 150 rpm                  |                |
| Engine maximum rated speed | 10000 ± 300 rpm                 |                |
| Fuel Tank Capacity         | 0.55 lit.                       |                |
| Cutting Diameter           | 415mm                           |                |
| Fuel mix ratio             | 50:1                            |                |
| Sound Rating               | 112dB(A)                        |                |
| Trimming Line              | 2.0mm                           | 2.4mm          |
| Dry Weight                 | 5.3kg                           | 5.7kg          |

\*Specifications are subject to change without notice.

# SYMBOL

Some of the following symbols may be used on this tool. Please study them and understand their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.



| SYMBOL | NAME                       | DESIGNATION/EXPLANATION                                                                                        |
|--------|----------------------------|----------------------------------------------------------------------------------------------------------------|
|        | Safety alert               | Indicates danger, warning or caution. It means attention! Your safety is involved.                             |
|        | Read the operator's manual | Read the operation manual and follow all warnings and safety instructions.                                     |
|        | Ricochet alert             | Danger of Ricochet.                                                                                            |
|        | Keep bystanders away       | Keep all bystanders (especially children and pets) at least 15m away from the work area.                       |
|        | Do not use toothed blade   | This unit is not intended for use with a toothed saw type blade.                                               |
|        | Beware of blade thrust     | Continued movement of saw blade after cutting through log.                                                     |
|        | Boots                      | Wear non-slip safety footwear when using this equipment.                                                       |
|        | Gloves                     | Wear non-slip, heavy-duty gloves.                                                                              |
|        |                            | Wear eye, hearing and head protection when operating this equipment.                                           |
|        |                            | All relevant directives, which require the CE-marking and which are applicable for the product, are fulfilled. |
|        |                            | Guaranteed sound power level.                                                                                  |
|        |                            | To reduce the risk of injury or damage, avoid contact with any hot surface.                                    |
|        |                            | A hazard from fire/flammable materials.                                                                        |
|        | RPM Decal                  | Rotational direction and maximum speed of the shaft for the cutting attachment.                                |





# SYMBOL

Some of the following symbols may be used on this tool. Please study them and understand their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

| SYMBOL                                                                            | NAME            | DESIGNATION/EXPLANATION                                                                                                                                                                        |
|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Choke lever     | choke (close)  , run (open)  |
| START $\longleftrightarrow$ STOP                                                  | Ignition switch |                                                                                                                                                                                                |
|  | Fuel            | Use unleaded petrol intended for motor vehicle use with an octane rating of 91([R+M]/2) or higher.                                                                                             |
|                                                                                   |                 | Use 2-stroke oil for air cooled engines.                                                                                                                                                       |
|                                                                                   |                 | Mix the fuel mix thoroughly and also each time before refuelling.                                                                                                                              |
|  | No Smoking      | Do not smoke when mixing fuel or filling fuel tank.                                                                                                                                            |



# SAFETY RULES & PRECAUTIONS

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Proper safety precautions must be observed. Like all power equipment this unit must be handled carefully. **DO NOT EXPOSE YOURSELF OR OTHERS TO DANGER** Follow these general rules. Do not permit others to use this machine unless they are thoroughly responsible and have read, and understand the machine manual and are trained in its operation. This machine is not to be operated by children.

- Always wear safety goggles for eye protection. Dress properly , do not wear loose clothing or jewelry that could become caught in moving parts of the unit. Safe, sturdy, nonskid footwear should always be worn. Long hair should be tied back. It is recommended that legs and feet be covered to protect from flying debris during operation.
- Before using and after dropping or other impacts, inspect the entire machine for loose parts (nuts, bolts, screws, etc.) and any damage. Repair or replace as necessary.
- **DO NOT USE** any attachment with this power head other than the ones recommended by our company. Serious injury to the operator or bystanders could result as well as damage to the machine.
- Keep the handles free from oil and fuel.
- Always use proper handles and shoulder strap when cutting.
- Do not smoke while mixing fuel or filling tank.
- Do not mix fuel in an enclosed room or near open flames. Ensure adequate ventilation.
- Always mix and store the fuel in a properly marked container that is approved by local codes and ordinances for such usage.
- Never remove the fuel tank cap while the engine is running.
- Never start or run the engine inside a closed room or building. Fumes from the exhaust contain dangerous carbon monoxide.
- Never attempt to make engine adjustments while the unit is running and strapped to the operator. Always make engine adjustments with the unit resting on a flat, clear surface.
- Do not pull on the cable.
- Do not lift the machine other than by the handle of the shaft.
- Do not rest the machine on the ground while the engine runs (e.g.in idling).
- Regular check for damages,failing of parts,component or cables.



# SAFETY RULES & PRECAUTIONS

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- Do not use the unit if it is damaged or poorly adjusted. Never remove the machine's guard. Serious injury to the operator or bystanders could result as well as damage to the machine.
- Inspect the area to be cut and remove all debris that could become entangled in the nylon cutting head. Also remove any objects that the unit may throw during cutting.
- Keep children away. Onlookers should be kept at a safe distance from the work area, at least 15 METER(50 FEET)
- Never leave the machine unattended.
- Do not use this unit for any job other than those for which it is intended as described in this manual.
- Do not overreach. Keep proper footing and balance at all times. Do not run the unit while standing on a ladder or on any other unstable footing location.
- Keep hands and feet clear of the nylon cutting head while unit is in use .
- Do not use this type of machine for sweeping away debris.
- Do not use the unit when you are tired, ill or under the influence of medication, drugs or alcohol.
- Use nylon cutting head which is free of damage. If a stone or any other obstacle is hit, stop the engine and check the nylon cutting head. A broken or unbalanced nylon cutting head must never be used.

## FOLLOW INSTRUCTION FOR CHANGING ACCESSORIES.

- Do not store in a closed area where fuel vapors can reach an open flame from hot water heaters, heaters, furnaces, etc. Store in a locked, well ventilated area only.
- Ensure safe and proper performance of your product. These part are available from your dealer. The use of any other accessories or attachments may cause a potential hazard or injury to the user, damage to the machine and void this warranty.
- Clean the machine completely, especially, the fuel tank, its surroundings, and the air cleaner.
- When refueling, be sure to stop the engine and confirm that it is cooled down. Never refuel when the engine is running or hot. When gasoline spills, be sure to wipe it up completely and properly dispose of those materials before starting the engine.
- Stay clear of other workers or bystanders by at least 15 meters /50 feet.
- When ever approaching an operator of the machine, carefully call his attention and confirm that the operator stops the engine. Be careful not to startle or distract the operator which can cause an unsafe situation.
- Never touch the nylon cutting head when ever the engine is running. If it is necessary to adjust the protector or nylon cutting head, be sure to stop the engine and confirm that the nylon cutting head has stopped running.
- The engine should be turned off when the machine is moved between work areas.
- Be careful not to hit the nylon cutting head against stones, or the ground.

Unreasonable rough operation will shorten the life of the machine as well as create an unsafe environment for yourself and those around you.



## SAFETY RULES & PRECAUTIONS

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- Pay attention to loosening and overheating of parts. If there is any abnormality of the machine, stop operation immediately and check the machine carefully. If necessary, have the machine serviced by a authorized dealer. Never continue to operate a machine which may be malfunctioning.
- In start-up or during operation of the engine, never touch hot parts such as the muffler, the high voltage wire or the spark plug.
- After the engine has stopped, the muffler is still hot. Never place the machine in any places where there are flammable materials (dry grass, etc.), combustible gasses or combustible liquids.
- Pay special attention to operation in the rain or just after the rain as the ground may be slippery.
- If you slip or fall to the ground or into a hole, release the throttle lever immediately.
- Be careful not to drop the machine or hit it against obstacles.
- Before proceeding to adjust or repair the machine, be sure to stop the engine and detach the spark plug cap from the spark plug.
- When the machine is placed in storage for a long time, drain fuel from the fuel tank and carburetor, clean the parts, move the machine to a safe place and confirm that the engine is cooled down.
- Make periodic inspections to assure safe and efficient operation. For a thorough inspection of your machine, please contact a dealer.
- Keep the machine away from fire or sparks.
- It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. Exposure to vibration and cold may cause tingling and burning sensations followed by loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

Keep your body warm, especially the head, neck, feet, ankles, hands and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.

Limit the hours of operation. Try to fill each day with jobs where operating the brush cutter or other hand-held power equipment is not required.

If you experience discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself to cold and vibration.
- Always wear ear protection, as being exposed to loud noise for long time can result in diminished hearing or even loss of hearing. Total face and head protection must be worn to prevent bodily injury from either slipping or falling into shrubbery, branches, or bushes.
- Wear no-slip heavy duty work gloves to improve your grip on the brush cutter handle. Gloves also reduce the transmission of machine vibration to your hands.



# SAFETY RULES & PRECAUTIONS

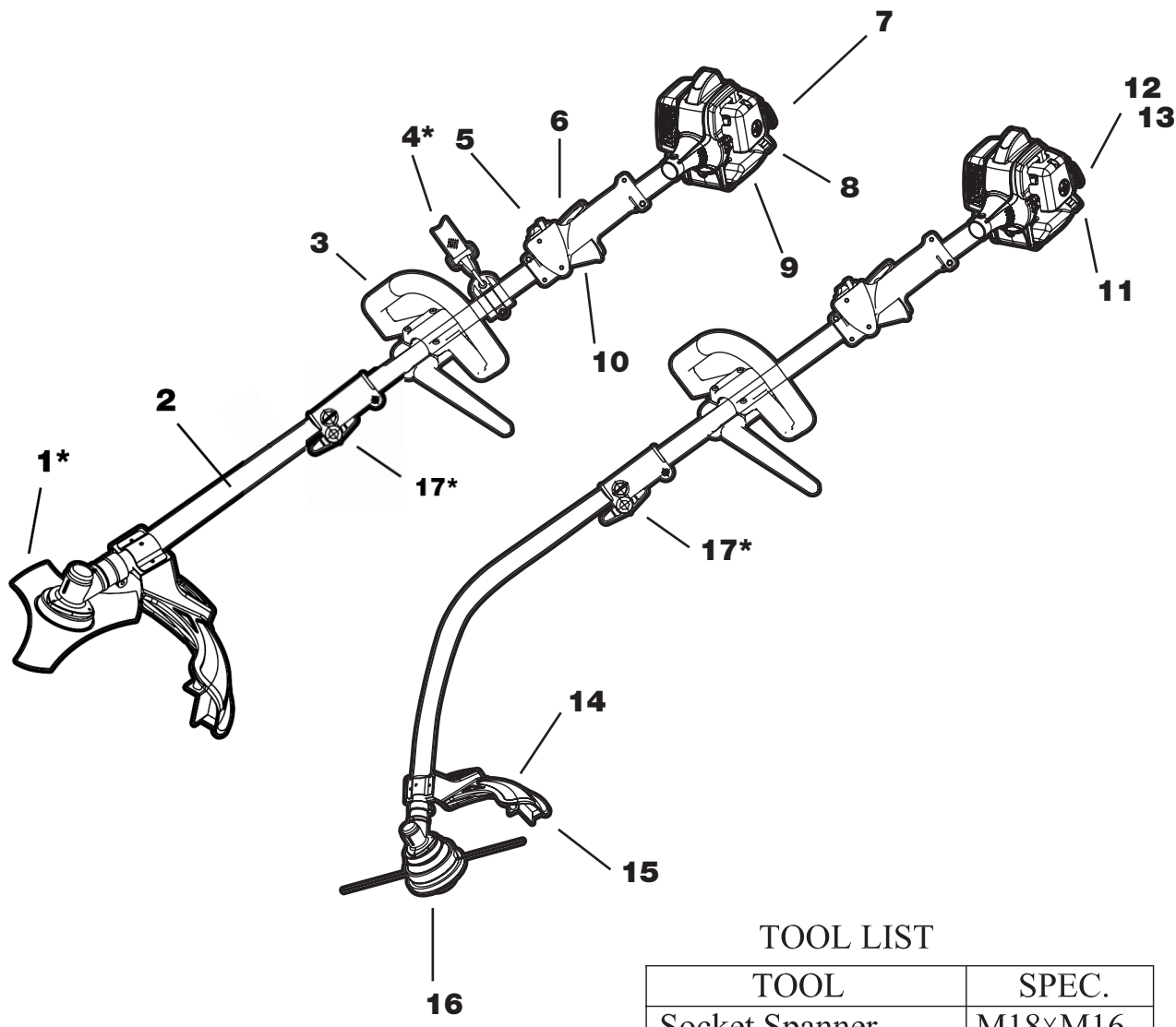
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- **WARNING:** The cutter area is still dangerous while the machine is coming to a stop.

## Note: Noise and vibration

- 1.The running at low speed can reduce the noise and quiver.
- 2.In order to lower noise, the brush cutter should be operated in an open environment.
- 3.The vibration can be lowered if the handle is grasped firmly.
- 4.In order to avoid disturbing others, the machine should be operated in daytime.
- 5.Wear personal protective equipment, such as gloves and ear protection during the operation.
- 6.The machine is not for professional work and not for long time operation.
- 7.“In order to keep the user's fit and prolong the machine's life, please do not work more than 2 hours in a whole day and don't keep working more than 10 minutes at a time.

# DESCRIPTION



TOOL LIST

| TOOL                | SPEC.   |
|---------------------|---------|
| Socket Spanner      | M18×M16 |
| Double head spanner | M8×M10  |
| Hex Key             | M5      |
| Hex Key             | M4      |

SAFETY MANUAL included with unit.  
Read before operating and keep for future reference to learn proper, safe operating techniques.

\* Product may vary from the image.



# DESCRIPTION

SAFETY MANUAL included with unit.  
Read before operating and keep for future reference to learn proper, safe operating techniques.

1. **BLADE** Circular blade for grass, weed or brush cutting applications. Harness, metal shield and U-Handles required for blade operation.

2. **DRIVE SHAFT ASSEMBLY** Contains a specially designed liner flexible drive shaft.

3. **HANDLE ASS'Y** this handle can be adjusted at you convenience for comfort.

4. **HARNESS ASS'Y** a attachment which hang the machine on the operator and adjustable in length.

5. **IGNITION SWITCH** "slide switch" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to Run, BACK to STOP.

6. **SAFETY LEVER** Before acceleration, compress it please.

7. **FUEL TANK LID.**

8. **PURGE BULB** Pushing purge bulb (7 to 10 times before starting), will remove all air and stale fuel from fuel system and bring fresh fuel to the carburetor.

9. **FUEL TANK** Contains fuel and fuel filter.

10. **THROTTLE TRIGGER** Spring loaded to return to idle when released. When accelerating, press trigger gradually for best operating technique. Do not hold trigger

while starting.

11. **AIR CLEANER COVER** Contains replaceable felt element.

12. **CHOKE** the choke control is located on the top of the filter cover.

**COLD STARTS** Pull lever up to close choke for cold starts. push lever down for RUN position.

13. **STARTER HANDLE** pull handle until engine starts, then return handle slowly. DO NOT let handle snap back or damage to starter will occur.

14. **DEBRIS SHIELD** Mounted just above the cutting attachment. Helps protect operator by deflecting debris produced during the trimming operation. Do not operate unit without shield.

15. **CUT-OFF KNIFE** Trims nylon filament to the correct length-7", head to end of line-when nylon trimming head is bumped on the ground during operation, line advance. if trimmer is operated without a cut-off knife the line becomes too long (more than 7") the operating speed will slow down the engine, this will overheat or damage the engine.

16. **NYLON CUTTER HEAD** Contains replaceable nylon trimming line that advances when the trimmer head is tapped against the ground while the head is turning at normal operating speed.

17. **SCREW TIGHTEN** put the tube into link body, tighten the screw.

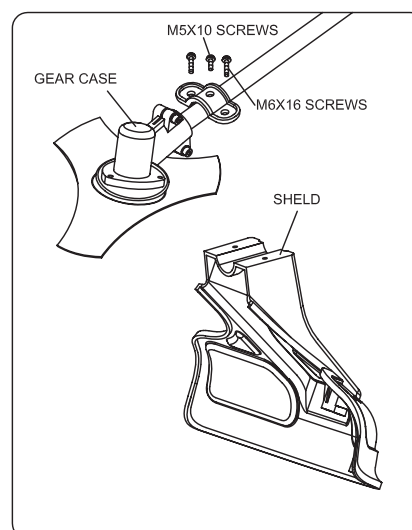


# ASSEMBLY

## INSTALLING PLASTIC SHIELD

Install the safety cover on the shaft with the safety cover bracket and the screws provided.

Tighten the screws after setting the safety cover bracket at the appropriate position.

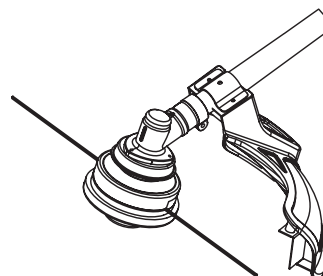


## WARNING CAUTION

### INSTALLING NYLON LINE CUTTER HEAD

Align hole in adapter plate with hole in shaft and install locking tool.

Thread cutter head onto shaft (turning it clockwise) until it is tight.  
Remove locking tool.

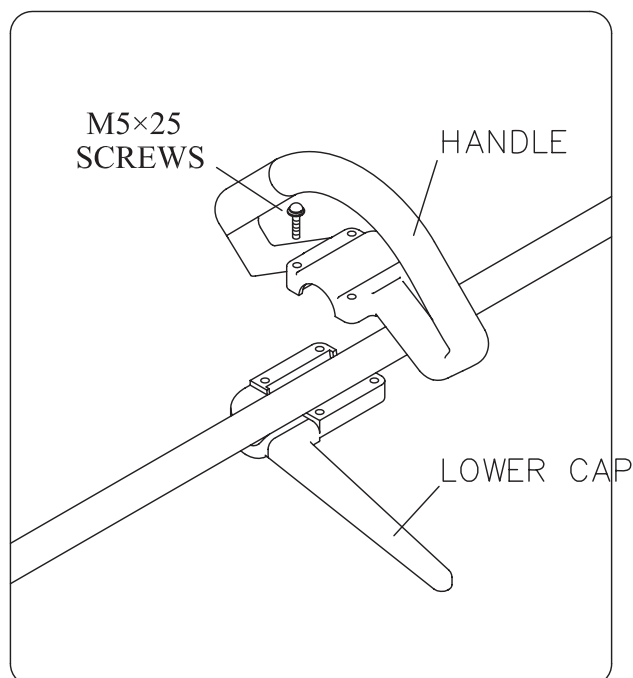




# ASSEMBLY

## INSTALLING HANDLE

Install handle in bracket .Position handle in a comfortable operating position and tighten four M5×25 screws.



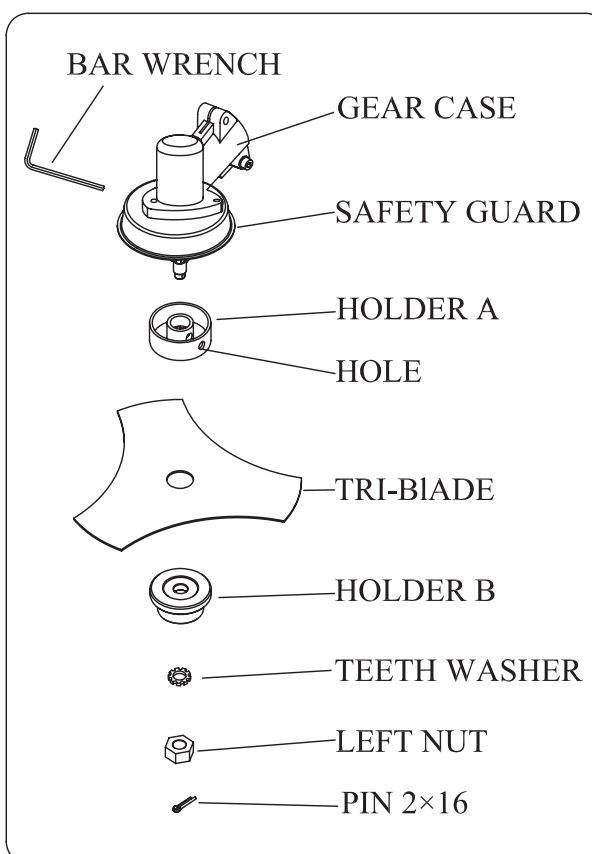
## BLADE INSTALLATION

Install holder A, the tri-blade ,holder B , teeth washer,in this order,Then clamp with a lefthand thread net.

Align hole of gear case and holder A, and insert S=4mm bar wrench.

Rotate blade-fastening nut with plug box wrench in clockwise direction until securely tightened.

Install the pin 2×16 and disjoin it.



## WARNING CAUTION

### EXCESSIVE VIBRATION- STOP ENGINE IMMEDIATELY

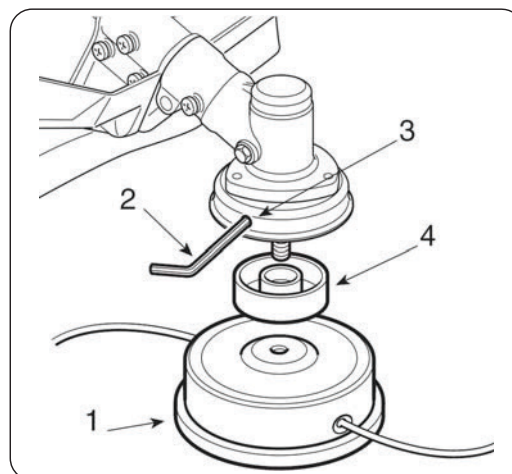
Excessive vibration of blade means that it is not properly installed. Stop engine immediately and check blade. Blade improperly installed will cause injury.

Use only our company original cutting equipment parts when servicing the unit.

# ASSEMBLY

## HEAD LINE INSTALLATION

- Insert the hex key (2) into the specific hole in the angle transmission (3) and rotate the cutting line head (1) by hand until the hex key enters the inner hole, blocking rotation.
- Ensure that the grooves in the inner ring-nut (4) mach up perfectly with the angle transmission(3).
- Fit the cutting line head (1) screwing it up in an anticlockwise direction.
- Remove the hex key (2) .

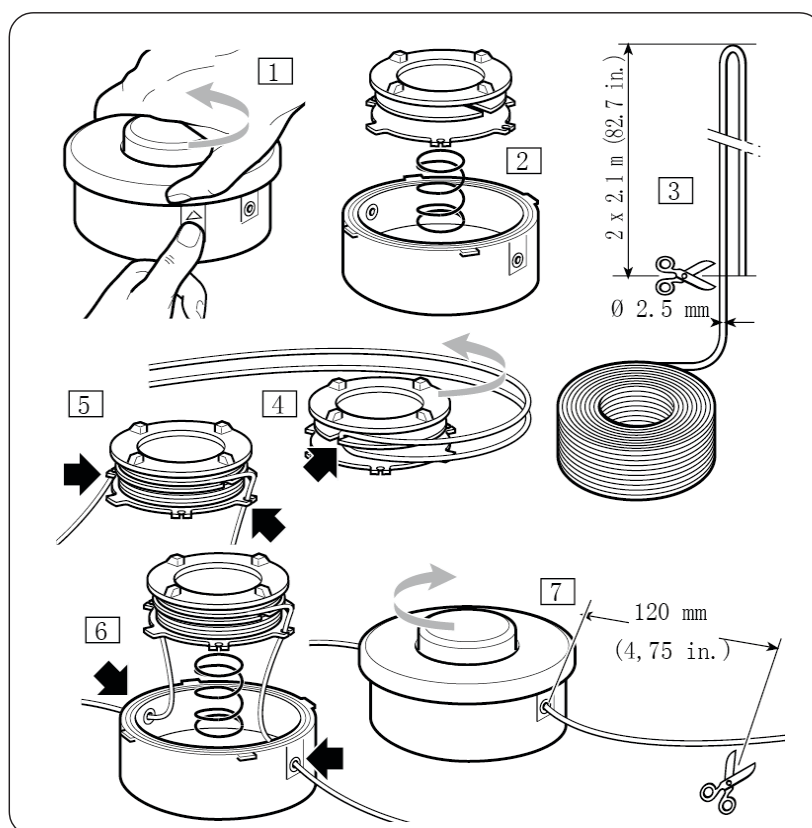


## WARNING CAUTION

### INSTALLING NYLON LINE CUTTER HEAD

Align hole in adapter plate with hole in shaft and install locking tool. Thread cutter head onto shaft (turning it clockwise) until it is tight. Remove locking tool.

## HEAD LINE REPLACEMENT



# RULES FOR SAFE OPERATION

## WARNING DANGER

All models trimmers and brushcutters can throw small stone, metal or small objects as well as the material being cut. Read these Rules for Safe Operation with care.

Follow the instructions in your operator's manual.

Read the operator's manual carefully. Be thoroughly familiar with the controls and proper use of the unit. Know how to stop the unit and shut off the engine. Know how to unhook a harnessed unit quickly.

Never allow anyone to use the unit without proper instruction. Be sure the operator wears the foot, leg, eye, face and hearing protection. Do not rely on the debris shield on the unit to protect your eyes from ricocheting or thrown objects. Keep the area clear of bystanders, children and pets. Never allow children to operate or play with the unit.

Do not allow anyone to enter the operating DANGER ZONE with you. The danger zone is an area 15 meters in radius (about 16 paces) or 50 feet.

Insist that persons in the RISK ZONE beyond the danger zone wear eye protection from thrown objects. If the unit must be used where there are unprotected people, operate at a low throttle speed to reduce the risk of thrown objects.

Move the stop switch to "stop" position when the engine idles, hereby ensuring it is reliable before

cutting. Only may continue to operate the unit when stop switch is in good condition.

Routines for checking that the cutting attachment stops turning when the engine idles.

Hold the brushcutter with the right hand on the trigger handle and the left hand on the left handle. Keep a firm grip with both hands while in operation. Brush cutter should be held at a comfortable position with the trigger handle about hip height. Maintain your grip and balance on both feet. Position yourself so that you will not be drawn off balance by the kick-back reaction of the cutting blade.

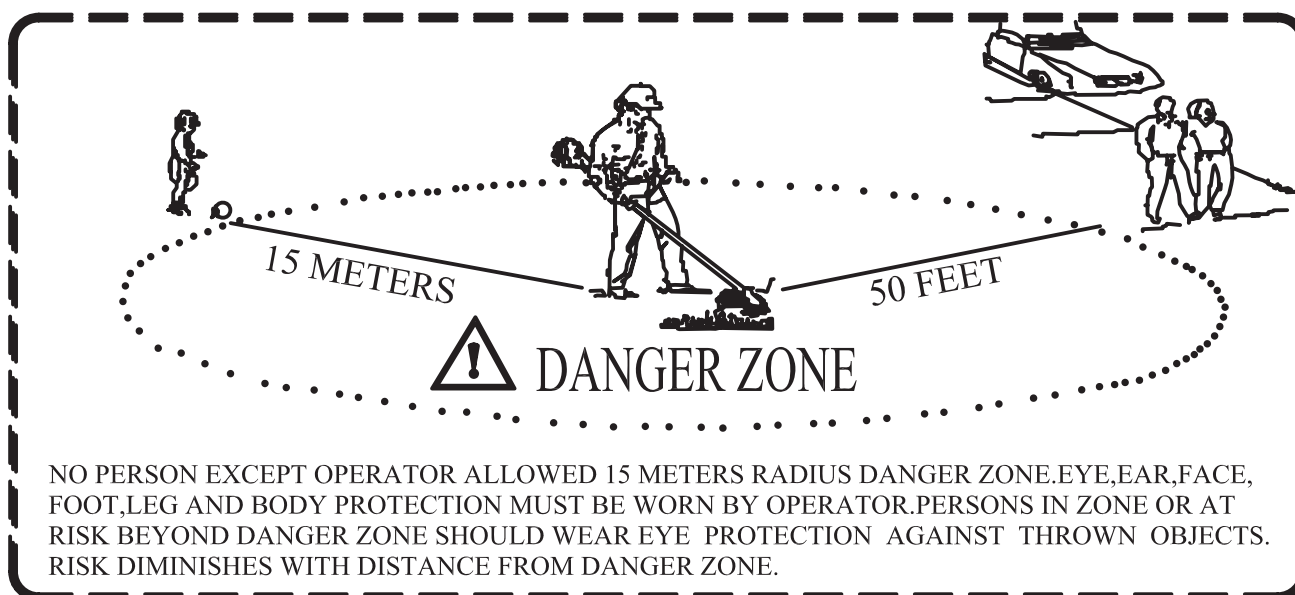
Use the shoulder harness at all times. Adjust both harness and harness clamp on the unit so that the unit hangs a few inches above ground level. The cutting head and the plastic debris shield should be level in all directions. Harness the unit on the right side of your body.

## WARNING DANGER

In addition to head, eye, face and ear protectors wear shoes to protect your feet and improve your footing on slippery surfaces. Do not wear ties, jewelry, or loose, dangling clothing which could be caught in the unit.

Do not wear open-toed footwear, or go barefoot or bare legged. In certain situations you must wear total face and head protection.

Pay attention so as not to kick back and blade thrust.

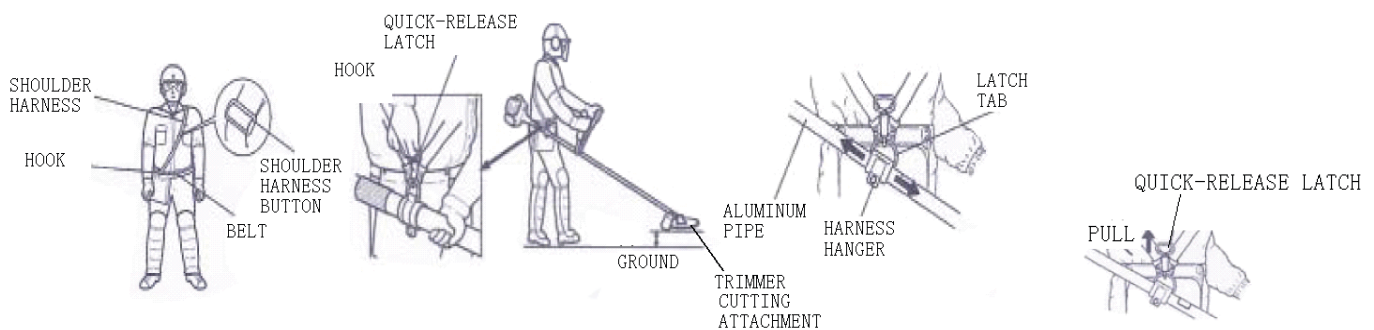


# USING THE SHOULDER HARNESS

1. Assemble and adjust the shoulder harness and belt, as shown.
2. Adjust the shoulder-harness button, and move the hook to your waist, then adjust the belt (If there is a belt).
3. Hang the latch tab on the harness hook.
4. If the brush cutter doesn't balance, then adjust the harness hanger, and the handlebar, until it balances.

## WARNING CAUTION

The hook is situated at your right hip, and the quick-release latch is situated at the outside.



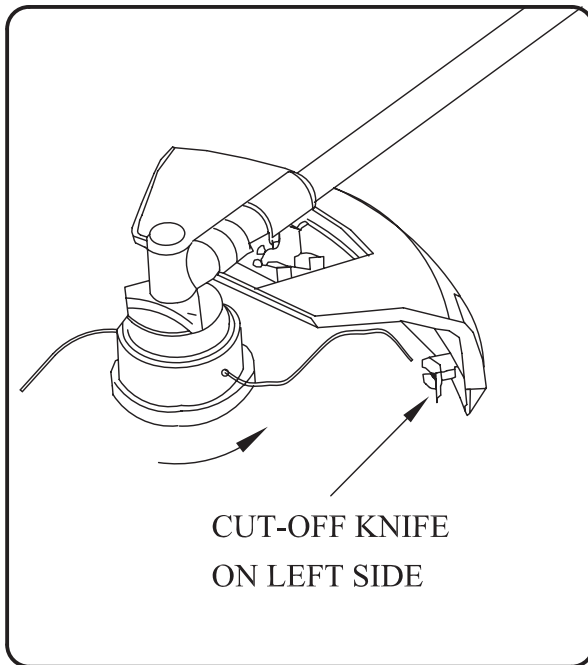
5. To quickly detach the brush cutter from the harness, pull the quick-release latch tab upward;
6. Insert the latch tongue in the slot of the quick-release latch to reattach the brush cutter to the harness.

## WARNING DANGER

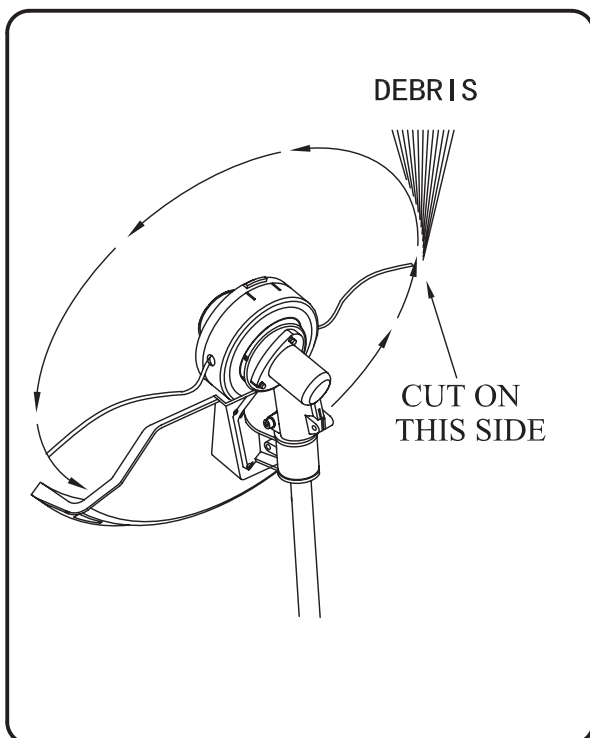
Before using, please check the shoulder harness and confirm it is OK. Encounter danger, please stop the brush cutter immediately, and pull the quick-release latch tab, the brush cutter will be detached from your body.



# CUTTING WITH A NYLON HEAD



The CUT-OFF KNIFE will be on the right side of the debris shield.



## WARNING DANGER

The proper debris shield must be in place on the unit when nylon cutting line is used. The cutting line can flap around if too much line is exposed. Always use the plastic debris shield with cut-off knife when using nylon cutting heads.

For nearly all cutting, it is good to tilt the line head so that contact is made on the part of the line circle where the line is moving away from you and the debris shield. (See appropriate picture) This results in the debris being thrown away from you.

## WARNING DANGER

Tilting the head to the wrong side will shoot the debris TOWARDS you. If the line head is held flat to the ground so that cutting occurs on the whole line circle, debris will be THROWN at you, drag will slow the engine down, and you will use up a lot of line.

## WARNING DANGER

Use only quality nylon monofilament line. Never use wire or wire-reinforced line in place of nylon trimmer line. Load your nylon line cutting head only with nylon trimmer line of the proper diameter.

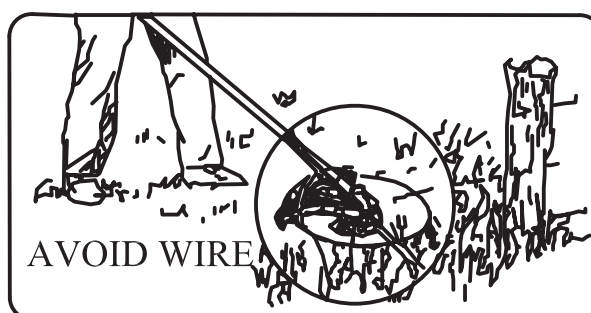
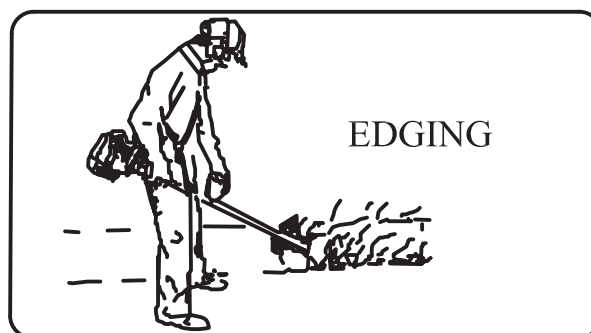
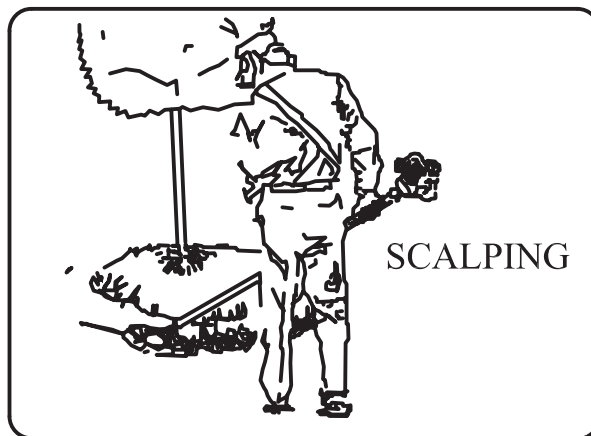
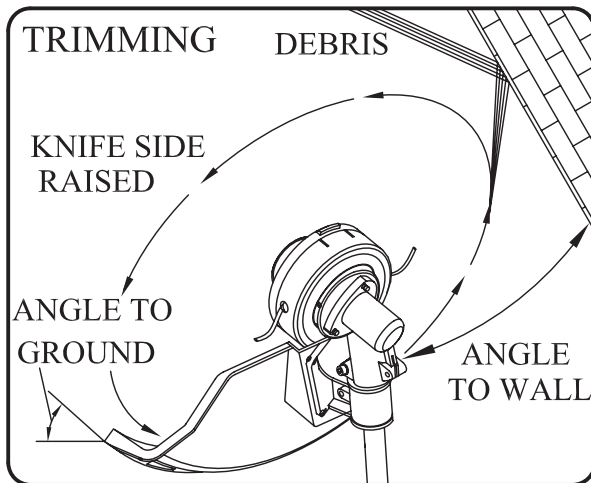
## WARNING DANGER

Use extreme caution when operating over bare spots and gravel, because the line can throw small rock particles at high speeds. Debris shields on the unit cannot stop objects which bounce or ricochet off hard surfaces.





# CUTTING WITH A NYLON HEAD



## TRIMMING:

This is feeding the trimmer carefully into the material you wish to cut. Tilt the head slowly to direct debris away from you. If cutting up to a barrier such as fence, wall or tree, approach from an angle where any debris ricocheting off the barrier will fly away from you. Move the line head slowly until the grass is cut right up the barrier, but do not jam (overfeed) the line into the barrier. If trimming up to a wire mesh or chain linked fence be careful to feed only up to wire. If you go too far the line will snap off around the wire. Trimming can be done to cut through weed stems one at a time. Place the trimmer line head near the bottom of the weed—never high up which could cause the weed to chatter and catch the line. Rather than cut the weed right through, just use the very end of the line to wear through the stem slowly.

## WARNING DANGER

Do not use a steel blade for edging or scalping.

## SCALPING AND EDGING:

Both of these are done with the line head tilted at a steep angle. Scalping is removing top growth leaving the earth bare. Edging is trimming the grass back where it has spread over a sidewalk or driveway. During both edging and scalping, hold the unit at a steep angle and in a position where the debris, and any dislodging dirt and stones, will not come back towards you even if it ricochets off the hard surface. Although the picture shows how to edge and scalp every operator must find for himself the angles which suits his body size and cutting situation.

## WARNING DANGER

Do not trim in any area where there are strands of fencing wire. Wear protective safety protecting. Do not cut where you cannot see what the cutting device is cutting.



# CUTTING WITH A BLADE

## CUTTING WITH A BLADE

There are many different types of blades, however the two most commonly used are the following.

BRUSHBLADE is used for cutting brush and weeds up to 3/4" in diameter. Only Masport 255mm 3- blade can be used in this type of brush cutter.

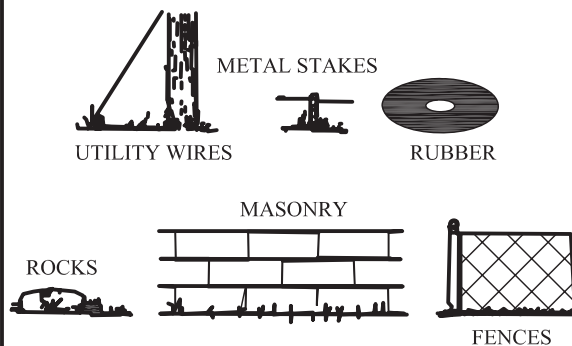
## WARNING DANGER

Do not cut with dull, cracked or damaged metal blade.

Before cutting growth, inspect for obstructions such as boulders, metal stakes or strands of wire from broken fences. If an obstruction cannot be removed, mark its location so that you can avoid it with the blade. Rocks and metal will dull or damage a blade. Wires can catch on the blade head and flap around or be thrown into the air.

## WARNING DANGER

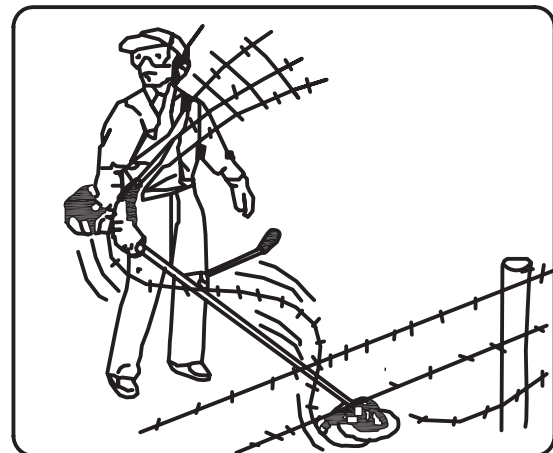
DO NOT TOUCH THESE TYPES OF OBJECTS WITH BLADE



Blade thrust is the reaction which may occur when the spinning blade contacts anything it cannot cut. This contact may cause the blade to stop for an instant, and suddenly "thrust" the unit away from the object that was hit. This reaction can be violent enough to cause the operator to lose control of the unit. Blade thrust may occur without warning if the blade snags, stalls or binds. This is more likely to occur in areas where it is difficult to see the material being cut. For cutting ease and safely, approach the weeds being cut from the right to the left, in the event that an unexpected object or woody stock is encountered, this could minimise the blade thrust reaction.

## WARNING DANGER

DO NOT USE A BRUSH CUTTER FOR CUTTING TREES.







## CUTTING WITH A BLADE

**SCYTHING WEEDS.** This is cutting by swinging the blade in a level arc. It can quickly clear areas of field grass and weeds. Scything should not be used to cut large, tough weeds or woody growths.

### NOTE

Do not use a brush blade to cut trees which exceed a diameter of 1/2 to 3/4 inches.

Scything can be done in both directions, or just in one way which results in the debris being thrown away from you.

That is using the side of the blade that it is rotating away from you. Tilt down the blade slightly on this same side. You will be hit by some debris if you scythe in both directions.

Do not force the blade to cut. Do not change the angle of cut after into the wood. Avoid using any pressure or leverage which could cause the blade to bind or crack.





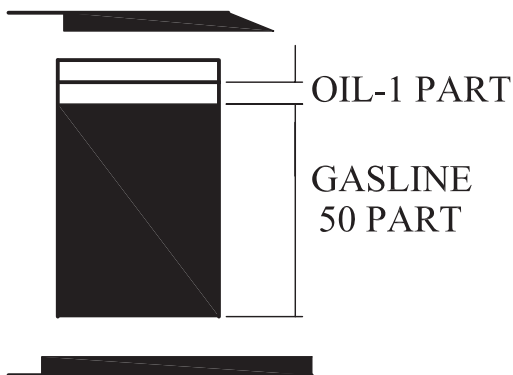
# FUEL & OIL MIXTURE



## WARNING

- Never fill the fuel tank to the very top.
- Never add fuel to the tank in a closed non-ventilated area.
- Do not add fuel to this unit close to an open fire or sparks.
- Be sure to wipe off spilled fuel before attempting to start engine.
- Do not attempt to refuel a hot engine.

Fuel used for this model is a mixture of unlead gasoline and approved engine lubricant. When mixing gasoline with two-cycle engine oil, use only gasoline which contains NO ETHANOL or METHANOL (Types of Alcohol) Use Branded 91 octane or higher unlead gasoline known to be of good quality. This will help to avoid possible damage to engine fuel lines and other engine parts.



MIXTURE RATIO IS 50:1

GASLINE-50 PART

OIL-1 PART

Fuel mixture at the rate other than 50:1 may cause damage to the engine, Ensure mixture ratio is correct.

## FUEL

The engine uses two-stroke fuel, a mixture of gasoline and 2-stroke lubricant 50:1

## GASOLINE

Use branded 92 octane or higher unlead gasoline known to be of good quality.

## STORING FUEL

Store fuel only in a clean, safe, approved container. Check and follow local ordinances on type and location of storage container.

## IMPORTANT

Two-stroke fuel may separate. Shake fuel container thoroughly before each use. Stored fuel ages. Do not mix more fuel than you expect to use within a month.

## FUEL AND OIL MIXTURE

Inspect fuel tank making sure that it is clean and fill with fresh fuel. Use a mixture of 50:1.



# PREPARING FOR OPERATIONS

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WHEN MIXING GASOLINE WITH TWO CYCLE ENGINE OIL, USE ONLY GASOLINE WHICH CONTAINS NO ETHANOL OR METHANOL(TYPES OF ALCOHOL). THIS WILL HELP TO AVOID POSSIBLE DAMAGE TO ENGINE FUEL LINES AND OTHER ENGINE PARTS.  
DO NOT MIX GASOLINE AND OIL DIRECTLY IN THE ENGINE FUEL TANK.

IMPORTANT:Failure to follow proper fuel mix instructions may cause damage to the engine.

1.When preparing fuel mixture, mix only the amount needed for the job you are to do. Do not use fuel that has been stored longer than two months.Fuel mixture stored longer than this will cause hard starting and poor performance.If fuel mix has been stored longer than this time, it should be removed and filled with fresh mixture.

## WARNING DANGER

- 2.Never fill the fuel tank to the very top.(under 3/4 of the tank)
- 3.Never add fuel to the tank in a closed non-ventilated area.
- 4.Do not add fuel to this unit close to an open fire or sparks.
- 5.Be sure to wipe off spilled fuel before attempting to start engine
- 6.Do not attempt to refuel a hot engine.

## CHECK POINTS BEFORE OPERATION

- 1.Check for loose bolts, nuts and fittings.
- 2.Check the air cleaner for dirt. Clean the air filter of all dirt, etc. before operation.
- 3.Check to be sure that protector is securely in place.
- 4.Check to be sure that fuel is not leaking.
- 5.Check to be sure that blade is not cracked.

## WARNING DANGER

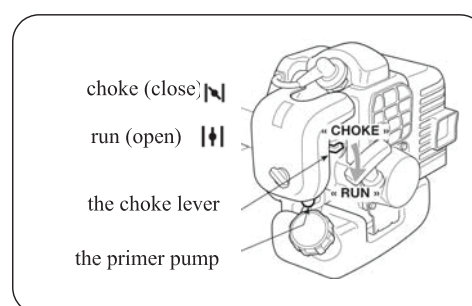
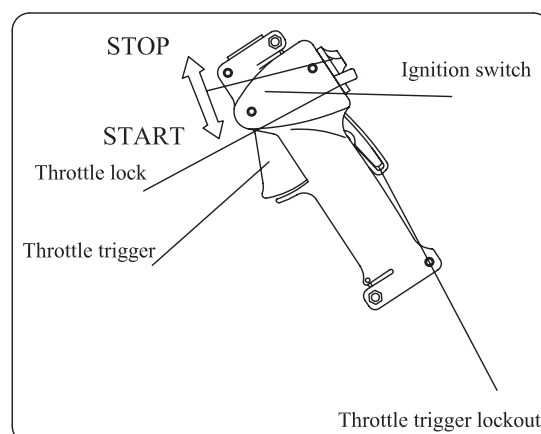
The engine exhaust from this product contains chemicals known to cause cancer, birth defects, or other reproductive harm.

# OPERATIONS

## ENGINE STARTING AND STOPPING PROCEDURES

### STARTING COLD ENGINE

1. Move the ignition switch to "START".
2. Give a gentle push on the primer pump repeatedly (7-10 times) until fuel comes into the primer pump.
3. Pull the choke lever up to close choke .
4. Move the throttle trigger and keep it in position with the throttle lock (if present).
5. Pull starter handle until engine false fires.
6. Push choke lever inwards (excessive cranking with choke lever will cause flooding of engine making it difficult to start.)
7. Pull starter handle until engine starts.
8. When the engine is started, disconnect the starter by turning the choke lever to "RUN" .
9. Disengage the throttle lock (if present) pressing the throttle trigger briefly.
10. Allow engine to warm up for a few minutes before using.



### STARTING WARM ENGINE

The choke lever to the "RUN" .

- If fuel tank was not run dry, pull starter one to three times and engine should start.
- If fuel tank was run dry, after refilling repeat steps 1-2-7.

*If the starter rope is pulled repeatedly with the choke on, it may flood the engine and make starting difficult.*

If you have flooded the engine, remove the spark plug and gently pull the handle on the starter rope to eliminate any excess fuel; then dry the spark plug electrodes and replace it on the engine.

### STOPPING THE ENGINE

- Release the throttle trigger and allow the engine to run idle for a few seconds.
- Move switch to STOP position.

# MAINTENANCE & CARE

## WARNING CAUTION

Use only original manufacturer's replacement parts, accessories and attachments. Failure to do so can cause possible injury, poor performance and may void your warranty.

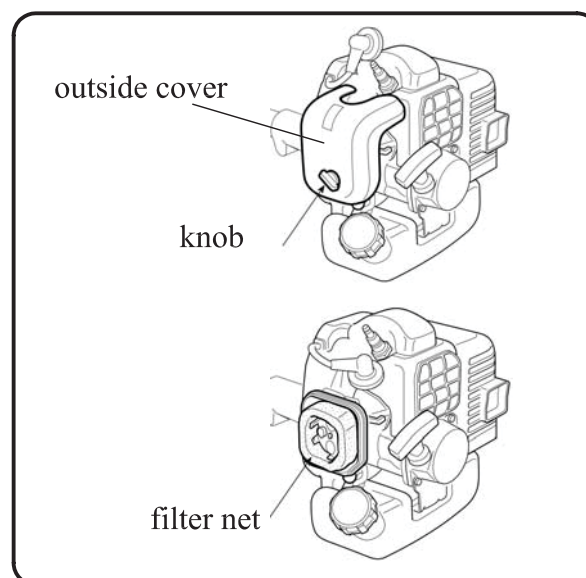
- The cutting attachment must not rotate in idle mode. If this requirement is not satisfied, the clutch has to be adjusted or the machine needs an urgent maintenance by a qualified technician.
- You may make adjustments and repairs described here. For other repairs, have the trimmer serviced by an authorized service agent.
- Consequences of improper maintenance may include excess carbon deposits resulting in loss of performance and discharge of black oily residue dripping from the muffler.
- Make sure all guards, straps, deflectors and handles are properly and securely attached to avoid the risk of personal injury.

## EXHAUST PORT AND SILENCER

- Depending on the type of fuel used, the type and amount of oil used, and/or your operating conditions, the exhaust port and silencer may become blocked with carbon deposits. If you notice a power loss with your petrol-powered tool, a qualified service technician will need to remove these deposits to restore performance.

## Air filter

- Accumulated dust in the air filter will reduce engine efficiency. Increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
- Light surface dust can readily be removed by tapping the filter. Heavy deposits should be washed out in suitable solvent.
- Remove filter cover by loosening air filter cover knob.



## ADJUSTING CARBURETOR

### NOTE

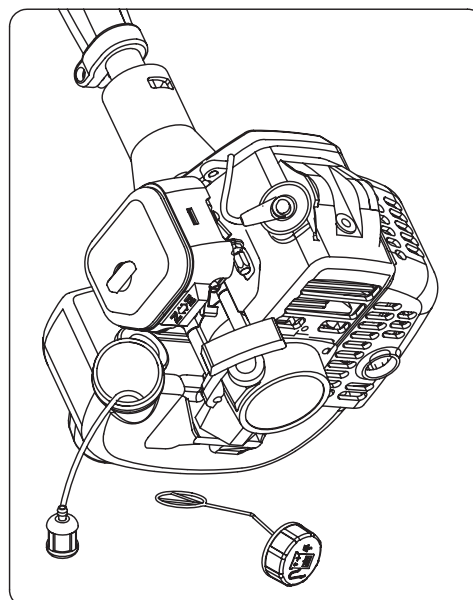
Do not adjust carburetor unless necessary. If you have trouble with the carburetor, see your dealer. Improper adjustment may cause engine damage and void warranty.



# MAINTENANCE & CARE

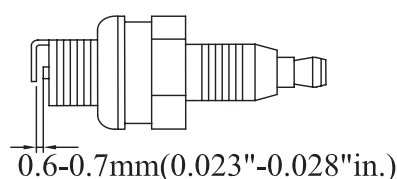
## Fuel filter

- Fuel tank is fitted with a filter.  
Filter is situated at the free end of fuel pipe and can be picked out through fuel port with a piece of hooked wire or the like.
- Check the fuel filter periodically. Do not allow dust to enter into fuel tank. Clogged filter will cause difficulty in starting engine or abnormalities in engine performance.
- When filter is dirty, replace the filter.
- When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with gasoline.



## Spark plug

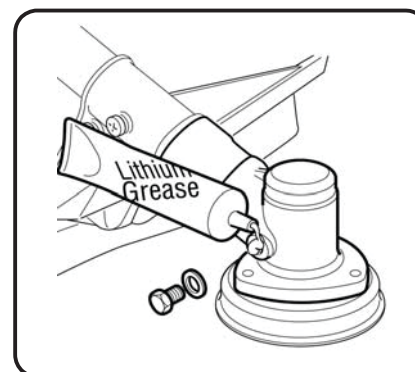
- Do not attempt to remove the plug from a hot engine in order to avoid possible damage to the threads.
- Clean or replace the plug if fouled with heavy oily deposits.
- Replace the plug if the center electrode is worn rounded at the end.
- Spark gap 0.6-0.7mm (.023".028")
- Fastening torque =14-15Nm(125-135in.lb)



## Bevel gear

After working (40-50) hours, fill with the right quantity of grease.

Remove the screw and put in the lithium-based grease . turning the shaft manually until grease emerges, then refit the wash the screw.





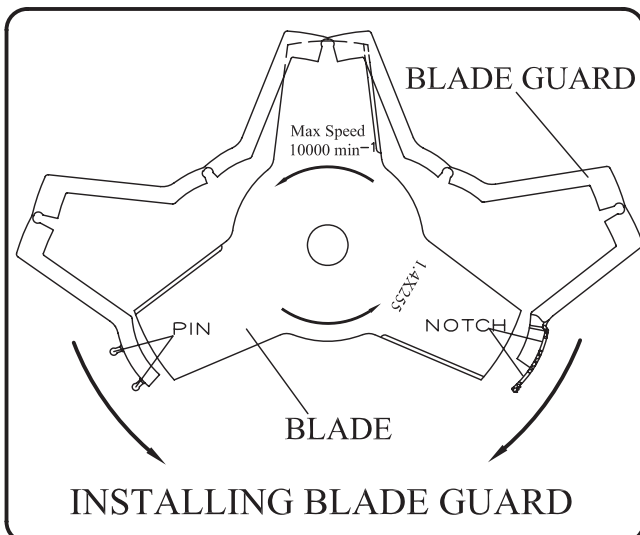


# TRANSPORT & STORAGE

## TRANSPORT, HANDLING

- The engine should be turned off when the unit is moved between work areas.
- After the engine has stopped, the muffler is still hot. never touch hot Parts such as the muffler.
- Confirm that the fuel has not leaked from the tank.
- Allow the engine to cool; empty the fuel tank and secure the unit from moving before transporting in a vehicle, if the blade is fitted, always use the blade guard.
- Installing blade guard.

Open the blade guard and install on the blade, then put the pin into the guard notch.



## WARNING DANGER

Always place the blade guard on the blade when the unit is not in use. Remove the blade guard before using the unit. If not removed, the blade guard could become a thrown object as the blade begins to turn.

## WARNING DANGER

Please empty the fuel tank before transporting, to avoid the engine leaked.

For avoiding the cutting attachment damaged the brush cutter and people, please removed the cutting attachment, and at the same time, resile the brush cutter as factory state, and then casting all parts into the package. Before transporting, all parts should be packed and validated safe.

## EXTENDED STORAGE

- Inspect, clean and repair unit if necessary.
- Remove all fuel from tank.
- Start engine-This will consume all fuel in fuel line and carburetor.
- Remove spark plug and pour one tea spoon of clean motor oil into spark plug hole of cylinder-replace spark plug.
- Store in clean, dry, dust free area.

## WARNING DANGER

Do not store in a closed area where fuel vapors can reach an open flame from hot water heaters, heaters, furnaces, etc. Store in a locked, well ventilated area only.





# TROUBLE SHOOTING GUIDE

## 1.FAILURE TO START

| symptom                                        |                                  |                                                 |               | probable cause                                                                                                                                             | remedy                                                                                  |
|------------------------------------------------|----------------------------------|-------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| cylinder<br>compress<br>pressure<br><br>normal | spark<br>plug<br>spark<br>normal | fuel<br>system<br>abnormality                   |               | these is no fuel in tank<br>fuel filter obstructed                                                                                                         | add fuel in tank<br>clean fuel filter                                                   |
|                                                |                                  | fuel<br>system<br>normal                        | fuel          | fuel is too dirty<br>there is water in fuel<br>there is too much<br>fuel in cylinder<br>mixture ratio is improper                                          | replace fuel<br>replace fuel<br>take down spark plug<br>and dry it<br>mixture proration |
|                                                | fuel<br>system<br>normal         | high<br>voltage<br>wire<br>spark<br>normal      | spark<br>plug | spark plug fouled with oily<br>deposits<br>spark plug insulation damage<br>spark gap is too large or small                                                 | clean the oily deposits<br>replace spark plug<br>adjust spark gap 0.6-0.7mm             |
|                                                |                                  | high<br>voltage<br>wire<br>spark<br>abnormality |               | high voltage wire breach<br>or break off<br><br>coil looseness                                                                                             | Contact Masport<br>service dealer                                                       |
| fuel<br>system<br>normal                       | ignition<br>system<br>normal     | compression<br>pressure<br>is<br>inadequate     |               | piston ring attrite<br>piston ring is broken<br>piston ring cementation<br>spark plug looseness<br>conjoint surface of the<br>cylinder and crank cass leak | Contact Masport<br>service dealer                                                       |
|                                                |                                  | compression<br>normal                           |               | high voltage wire and spark<br>plug contact poor<br><br>stop switch failure or short<br>circuit                                                            | Contact Masport<br>service dealer                                                       |



# TROUBLE SHOOTING GUIDE

## 2.LOW OUTPUT

| symptom                                                                      | probable cause                                                                       | remedy                                                                                  |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| flameout when speedup<br><br>the smoke is thin,<br>carburetor spout backward | fuel filter obstruct,<br>fall short of fuel<br><br>muffler fouled with oily deposits | clean fuel filter、 clean fuel road、<br>adjust carburetor<br><br>clean the oily deposits |
| compress press is inadequate                                                 | piston、 piston ring、<br>cylinder attrite、                                            | Contact Masport<br>service dealer                                                       |
| engine leak                                                                  | conjoint surface of the<br>cylinder and crank cass leak                              |                                                                                         |
| the end of two crank shaft leak                                              | the seal is bad                                                                      |                                                                                         |
|                                                                              | engine overheats<br><br>burning room fouled with<br>oily deposits                    | avoid use it for long time 、<br>high speed and heavy load<br>clean the oily deposits    |

## 3.ENGINE RUNNING UNSTABLE

| symptom                         | probable cause                                                                                            | remedy                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| there are knock sound in engine | piston、 piston ring、<br>cylinder attrite、<br>piston pin、 piston attrite<br>bearing of crank shaft attrite | Contact Masport<br>service dealer                                                                                                |
| there are metal knock sound     | engine overheats<br><br>burning room fouled with<br>oily deposits<br>gasoline branded is unfit            | avoid use it for long time 、<br>high speed and heavy load<br>clean the oily deposits<br><br>replace with required branded octane |
| engine ignition break off       | there is water in fuel<br>spark gap is wrong<br>coil gap is wrong                                         | instead fuel<br>adjust spark gap 0.6-0.7mm<br>adjust coil gap 0.3-0.4mm                                                          |

## 4.THE ENGINE SUDDENLY STOPPED

| probable cause                                                                                                | remedy                                         |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| fuel has been used up<br>spark plug fouled with oily deposits and short circuit<br>high voltage wire fall off | add fuel<br>clean the oily deposits<br>connect |









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