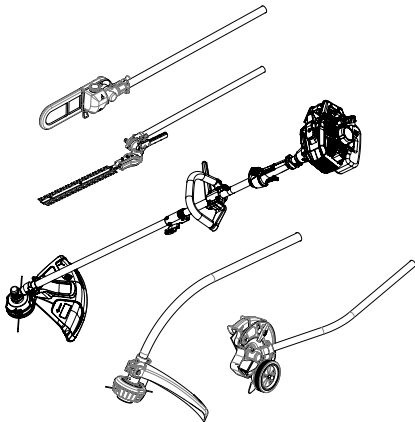


# Operator's Manual

## WBMT26P WBMT26E

### 2-Cycle Multi-function Tool



## SAVE THESE INSTRUCTIONS

### SERVICE

**DO NOT RETURN THIS UNIT TO THE RETAILER. PROOF OF PURCHASE WILL BE REQUIRED FOR WARRANTY SERVICE.**

For assistance regarding the assembly, operation or maintenance of the unit, please call **1-844-786-7335** (in the United States) or contact email box [CUSTOMERSERVICE@BADGERPOWERPRODUCTS.COM](mailto:CUSTOMERSERVICE@BADGERPOWERPRODUCTS.COM)

Warranty service is available through an authorized service center. To locate a service center in your area, please write us email or call the number listed above. Service on this unit, both within and after the warranty period, should only be performed by an authorized and approved service center. When servicing, use only identical replacement parts.

All information, illustrations, and specifications in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

The product may vary slightly from the illustrations contained in this manual.

**IMPORTANT: Read this manual thoroughly before using this product. Follow all instructions.**

# SAFETY

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

## SYMBOL MEANING



**DANGER:** Signals an **EXTREME** hazard. Failure to obey a safety **DANGER** symbol **WILL** result in serious injury or death to yourself or to others.



**WARNING:** Signals a **SERIOUS** hazard. Failure to obey a safety **WARNING** symbol **CAN** result in serious injury to yourself or to others.



**CAUTION:** Signals a **MODERATE** hazard. Failure to obey a safety **CAUTION** symbol **MAY** result in property damage or injury to yourself or to others.

**NOTE:** Advises you of information or instructions vital to the operation or maintenance of the equipment.

## SPARK ARRESTOR NOTE

**NOTE: For users on U.S. Forest Land and in the states of California, Maine, Oregon and Washington.** All U.S. Forest Land and the state of California (Public Resources Codes 4442 and 4443), Oregon and Washington require, by law that certain internal combustion engines operated on forest brush and/or grass-covered areas be equipped with a spark arrestor, maintained in effective working order, or the engine be constructed, equipped and maintained for the prevention of fire. Check with your state or local authorities for regulations pertaining to these requirements. Failure to follow these requirements could subject you to liability or a fine. This unit is factory equipped with a spark arrestor. If it requires replacement, contact your local service dealer to install the appropriate muffler assembly.



## CALIFORNIA PROPOSITION 65

**WARNING:** This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

**Read the operator's manual and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders.**

# • IMPORTANT SAFETY INSTRUCTIONS •

## READ ALL INSTRUCTIONS BEFORE OPERATING



**WARNING:** When using the unit, all safety instructions must be followed. Please read these instructions before operating the unit in order to ensure the safety of the operator and any bystanders. Please keep these instructions for later use.

- Read the instructions carefully. Be familiar with the controls and proper use of the unit.
- Do not operate this unit when tired, ill or under the influence of alcohol, drugs or medication.
- Never allow children to operate the unit. Teens must be trained, accompanied and supervised by an adult. Never allow adults to operate the unit without proper instruction.
- All guards and safety attachments must be installed properly before operating the unit.
- Inspect the unit before use. Replace damaged parts. Check for fuel leaks. Make sure all fasteners are in place and secure. Replace parts that are cracked, chipped, or damaged in any way. Do not operate the unit with loose or damaged parts.
- Only use the trimming line described in the *Specifications* section of this manual. Never use metal-reinforced line, wire, chain or rope. These can break off and become dangerous projectiles.
- Do not replace the cutting head with rigid or metal blades. Doing so could result in serious injury.

- Be aware of risk of injury to the head, hands and feet.
- Carefully inspect the area before starting the unit. Remove rocks, broken glass, nails, wire, string and other objects that may be thrown or become entangled with the unit.
- Clear the area of children, bystanders and pets; keep them outside a 50-foot (15 m) radius, at a minimum. Even then, they are still at risk from thrown objects. Encourage bystanders to wear eye protection. If you are approached, stop the unit immediately.
- Squeeze the throttle control and check that it returns automatically to the idle position. Make all adjustments or repairs before using the unit.
- Do not change the engine governor settings or overspeed the engine.
- This unit is intended for occasional, household use only.



## SAFETY WARNINGS FOR GAS UNITS



**WARNING:** Gasoline is highly flammable and its vapors can explode if ignited. Take the following precautions:

- Store fuel only in containers specifically designed and approved for the storage of such materials.
- Always stop the engine and allow it to cool before filling the tank. Never remove the fuel tank cap or add fuel when the engine is hot. Always loosen the fuel tank cap slowly to relieve any pressure in the tank before fueling.
- Always mix and add fuel in a clean, well-ventilated outdoor area where there are no sparks or flames. DO NOT smoke.
- Never operate the unit without the fuel cap securely in place.
- Avoid creating a source of ignition for spilled fuel. Wipe up any spilled fuel from the unit immediately, before starting the unit. Move the unit at least 30 ft. (9.1 m) from the fueling source and site before starting the engine. DO NOT smoke.
- Never start or run the unit inside a closed room or building. Breathing exhaust fumes can kill. Operate this unit only in a well ventilated outdoor area.

## WHILE OPERATING

- Wear safety glasses or goggles that meet current ANSI / ISEA Z87.1 standards and are marked as such. Wear ear/hearing protection when operating this unit. Wear a face mask or dust mask if the operation is dusty.
- Wear heavy long pants, boots, gloves and a long sleeve shirt. Do not wear loose clothing, jewelry, short pants, sandals or go barefoot. Secure hair above shoulder level.
- The cutting head shield must always be in place while operating the unit. Do not operate the unit without both trimming lines extended and the proper line installed. Do not extend the trimming line beyond the length of the shield.
- The cutting head should remain stationary when the engine idles. If it does not, refer to *Adjusting the Idle Speed*.
- Adjust the handle to provide the best grip, if applicable.
- Make sure the cutting head is not in contact with anything before starting the unit.
- Use the unit only in daylight or good artificial light.
- Avoid accidental starting. Be in the starting position whenever pulling the starter rope. The operator and unit must be in a stable position while starting. Refer to *Starting and Stopping*.
- Use the right tool. Only use this tool for its intended purpose.
- Always hold the unit with both hands when operating. Keep a firm grip on both handles or grips.
- Do not overreach. Always keep proper footing and balance. Take extra care when working on stairs, steep slopes or inclines. To avoid serious injury, do not operate the unit while on a ladder or a roof.
- Keep hands, face, and feet away from all moving parts. Do not touch or try to stop moving parts.
- Do not touch the engine, gear housing or muffler. These parts get extremely hot from operation, even after the unit is turned off.
- Do not operate the unit faster than the speed needed to do the job. Do not run the unit at high speed when not in use.
- Do not force the unit. It will do a better, safer job when used at the intended rate.
- Always stop the unit when operation is delayed or when walking from one location to another.

- Before setting the unit down, always make sure the engine is off and all moving parts have stopped.
- If you strike or become entangled with a foreign object, stop the unit immediately and check for damage. Do not operate the unit before repairing damage. Do not operate the unit with loose or damaged parts.
- Turn the engine off and disconnect the spark plug for maintenance or repair.
- Use only original equipment manufacturer (OEM) replacement parts and accessories for this unit. These are available from your authorized service dealer. Use of any other parts or accessories could lead to serious injury to the user, or damage to the unit, and void the warranty.
- Keep the unit clean. Carefully remove vegetation and other debris that could block moving parts.
- To reduce fire hazard, replace a faulty muffler and spark arrestor. Keep the engine and muffler free from grass, leaves, excessive grease or carbon build up.
- If the unit starts to vibrate abnormally, stop the unit immediately. Inspect the unit for the cause of the vibration. Vibration is generally an indicator of trouble.





## OTHER SAFETY WARNINGS









- Maintain the unit with care.
- All service, other than the maintenance procedures described in this manual, should be performed by an authorized service dealer.
- Never remove, modify or make inoperative any safety device furnished with the unit.
- Before inspecting, servicing, cleaning, storing, transporting or replacing any parts on the unit:
  1. Stop the unit.
  2. Make sure all moving parts have stopped.
  3. Allow the unit to cool.
  4. Disconnect the spark plug wire.
- Secure the unit while transporting.
- Never store the unit with fuel in the tank, inside a building where fumes may reach an open flame (pilot lights, etc.) or sparks (switches, electrical motors, etc.).
- Store the unit in a dry place, secured or at a height to prevent unauthorized use or damage. Keep the unit out of the reach of children.
- Never douse or squirt the unit with water or any other liquid. Keep handles dry and clean (free from debris, oil and grease).
- Clean the unit after each use. Refer to *Cleaning and Storage*. Do not use solvents or strong detergents.
- Keep these instructions. Refer to them often and use them to instruct other users. If you loan this unit to others, also loan them these instructions.

## SAVE THESE INSTRUCTIONS

• SAFETY & INTERNATIONAL SYMBOLS •

This operator's manual describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.

SYMBOL	MEANING
	<b>SAFETY ALERT SYMBOL</b> Indicates danger, warning or caution. May be used in conjunction with other symbols or pictographs.
	<b>READ OPERATOR'S MANUAL</b> <b>WARNING:</b> Read the operator's manual(s) and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders.
	<b>WEAR EYE AND HEARING PROTECTION</b> <b>WARNING:</b> Thrown objects and loud noise can cause severe eye injury and hearing loss. Wear eye protection meeting current ANSI / ISEA Z87.1 standards and ear protection when operating this unit. Use a full face shield when needed.
	<b>WEAR FOOT PROTECTION</b> Always wear heavy-duty, non-slip footwear when operating this unit.
	<b>WEAR HAND PROTECTION</b> Always wear heavy-duty, non-slip gloves when handling this unit.
	<b>HANDLE POSITION</b> Make sure the handle is positioned beyond the end of the safety label.
	<b>UNLEADED FUEL</b> Always use clean, fresh unleaded fuel.
	<b>OIL</b> Refer to operator's manual for the proper type of oil.
	<b>DO NOT USE E85 FUEL IN THIS UNIT</b> <b>WARNING:</b> It has been proven that fuel containing greater than 10% ethanol will likely damage this engine and void the warranty.

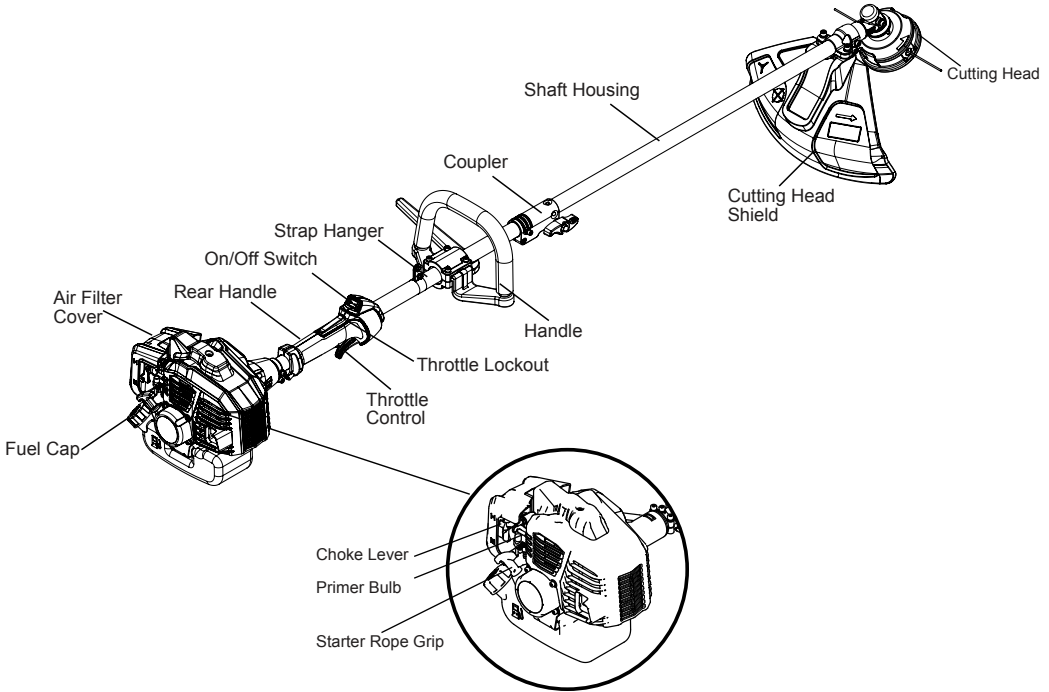
SYMBOL	MEANING
	<b>ON/OFF STOP CONTROL</b> ON / START / RUN
	<b>ON/OFF STOP CONTROL</b> OFF or STOP
	<b>PRIMER BULB</b> Push primer bulb, fully and slowly, 10 times.
	<b>THROWN OBJECTS CAN CAUSE SEVERE INJURY</b> <b>WARNING:</b> Small objects can be propelled at high speed, causing injury.
	<b>KEEP BYSTANDERS AWAY</b> <b>WARNING:</b> Keep all bystanders, especially children and pets, at least 50 feet (15 m) from the operating area.
	<b>HOT SURFACE</b> <b>WARNING:</b> Do not touch a hot muffler or cylinder. You may get burned. These parts get extremely hot from operation. When turned off, they remain hot for a short time.
	<b>SHARP BLADE</b> <b>WARNING:</b> There is a sharp blade on the cutting head shield. To prevent serious injury, do not touch the line cutting blade.
	<b>DO NOT USE METAL BLADES</b> <b>WARNING:</b> To prevent serious injury, do not replace the cutting head with rigid or metal blades.

# KNOW YOUR UNIT

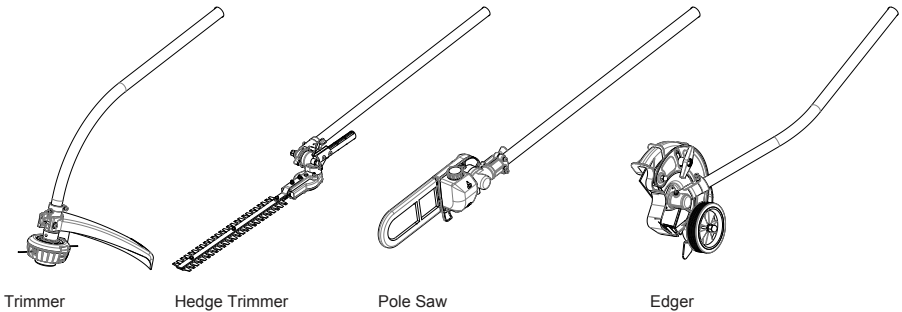
## APPLICATIONS

As a trimmer /brush cutter:

- Cutting grass and light weeds.
- Edging
- Decorative trimming around trees, fences, etc.



Other optional attachments may be used with this unit.



## SPECIFICATIONS\*

Model name	WBMT26P/WBMT26E
Engine type	Air-Cooled, 2-Cycle
Engine displacement	25.4cc (1.52 cu. in.)
Rated motor power	0.7kw
Lubrication	Fuel/Oil Mixture
Fuel/Oil ratio	50:1
Volumes of fuel tank	20 oz. (600ml)
Trimmer mechanism	Bump Head
Cutting path diameter	15 in.(380mm)/17in. (430mm)
Trimming line	0.079 in. (2.0mm) 0.095 in. (2.4mm)
Max. engine speed-trimmer (with cutting attachment, no-load)	8400/min
Max. engine speed-brush cutter (with cutting attachment, no-load)	9700/min
Cutting data edger	
Cutting length	9 in. (223mm)

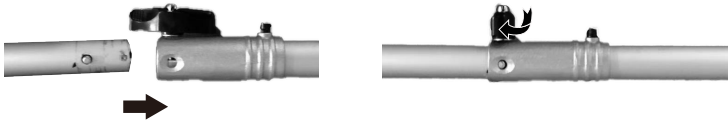
Cutting data brush cutter	
Cutting circle diameter of blade	10 in. (255mm)
Cutter blade thickness	0.055 in. (1.4mm)
Teeth quantity	3
Cutting data hedge trimmer	
Cutting circle diameter	0.95 in. (24mm)
Bar length	16 in. (406mm)
Cutting length	15.75 in. (400mm)
Max. cutting speed	1550 max. min-1
Cutting data pole saw	
Bar length	12 in. (305mm)
Cutting length	10 in. (254mm)
Chain link thickness	0.05 in. (1.3mm)
Oil tank capacity	125 ml

\* All specifications are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

## ASSEMBLY

When assembling this machine, please follow the instructions for assembly steps.

### 1. Mounting the rod:



### 2. Assemble the handle on the machine.

First put hex screws into the handle, second take handle on the shaft. Assemble the lower plate into the handle (bottom), and then tighten the nut knob enough. See the following pictures



### 3.1 Fitting the guard for curved shaft grass deflector:

- Remove the guard plug (1) from the end of the bottom part of the rod (2).
- Secure the guard (3) to the support (4) using the supplied bolts (5)

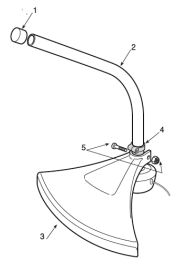
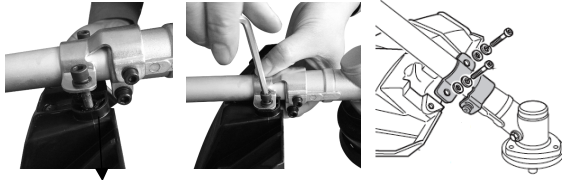


FIG 3.1

### 3.2 Fitting the guard for straight shaft grass deflector

- Fix the transmission with hex key and wrench enclosed as standard accessories for tightening the nuts with the safe guard.
- The guard is fixed to the angle transmission by two screws



**Warning!** Use only original manufacturer's replacement parts, accessories and attachments. Failure to do so can cause poor performance, possible injury and may void your warranty. Never use the machine without the guard assembled!

## 4. Assembly and disassembly of the cutting head

### 4.1 Assembly and disassembly of the cutting head

#### a) Assembly

- Block rotation of the shaft (1) with a proper wrench.
- Fit the cutting line head (2) screwing it clockwise.

#### b) Disassembly

- Block rotation of the shaft (1) with a proper wrench.
- Remove the cutting line head (2) unscrewing it anticlockwise.

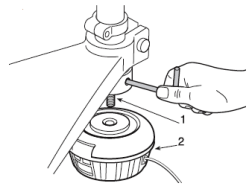


FIG 4.1

### 4.2 Assembly and disassembly of the cutting head

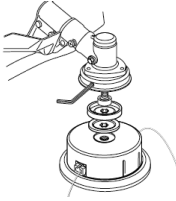
- a) **Release the nut.** Line up the two holes of flange and shield, use one screw driver to hold the flange as below and turn the socket wrench clockwise, the nut will be released.



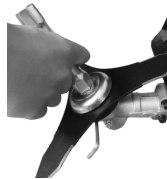
- b) **Fit the Nylon cutting head.** Remove another shield after release the nut. Still hold the flange, take the Nylon cutting head on the shaft and rotate counter-clockwise, the Nylon cutting head is fitted.



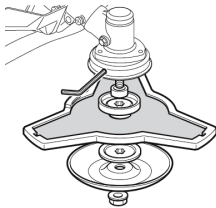
**c) Release the Nylon cutting head.** Use screw driver to hold flange and then rotate the Nylon cutting head clockwise, it will be replaced.



**d) Fit the blade.** Take the outer flange off after release the nut, then put the blade, outer flange, shield and nut according to priority as below picture. Note the blade rotation direction needs be same as below picture. Use screw driver to hold flange and tighten nut counter-clockwise, ensure the nut is tightened enough.



**e) Release blade.** Use screw driver to hold flange and release nut, the blade can be took off.



**Warning!**

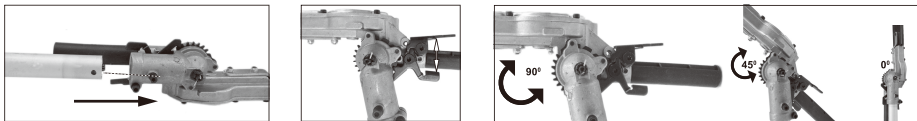
Please make sure the cutting head has been assembled correctly before use!

## 5. Mounting the hedge trimmer

Place the hedge trimmer precisely as shown in below figure on the connecting rod.

Adjust the slope by unlocking the lock.

The hedge trimmer can be tilted from 0° to 90°.



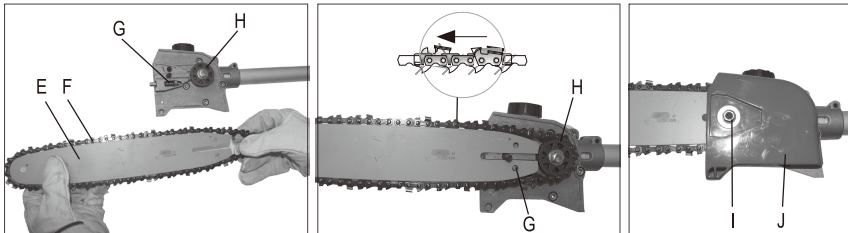
## 6. Fitting the cutter bar and the chaine

Remove the chain wheel cover (Item J) by undoing the fastening nut (Item I). Lay the chain (Item F) as shown into the groove which runs around the cutter bar (Item E).

Note the alignment of the chain teeth. Insert the cutter bar as shown in below figure into the mount at the gear unit.

Place the chain round the chain wheel (Item H). Make sure that the teeth of the chain engage securely in the chain wheel. The cutter bar must be hooked into the chain tensioning bolt (Item G).

Fit the chain wheel cover



**Important!** Do not fully tighten the fastening screw until after you have adjusted the chain tension.

## 7. Tensioning the chain

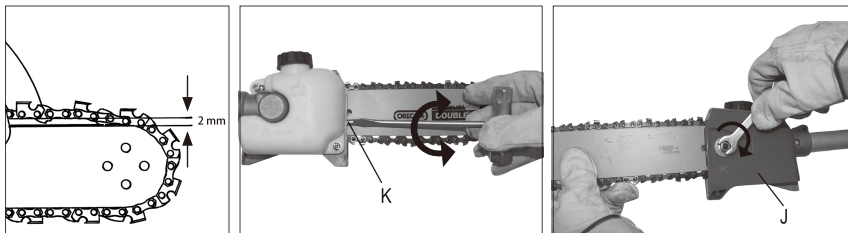
**Important!** Always pull out the spark boot plug before performing any checks or adjustments.

Undo the fastening screw (Item I) of the chain wheel cover by a few turns.

Adjust the chain tension with the chain tensioning screw (Item K). Turning the screw clockwise increases the chain tension, turning it counterclockwise decreases the chain tension. The chain is correctly tensioned if it can be raised by around 2 mm in the middle of the cutter bar.

Tighten the fixing screw of the chain wheel cover.

**Important!** All the chain links must lie properly in the guide groove of the cutter bar.

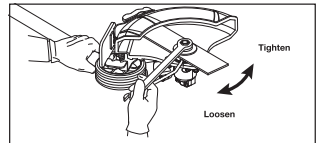
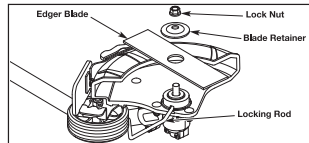


### Notes on tensioning the chain:

The chain must be properly tensioned to ensure safe operation. When the saw chain can be raised by around 2 mm in the middle of the cutter bar, you know that the chain tension is ideal. During cutting, the temperature of the chain rises and its length changes. It is important therefore to check the chain tension at least every 10 minutes and to adjust it again as required. This applies in particular to new saw chains. When you have finished working, slacken the chain again as it will shorten when it cools down. This will help to prevent damage to the chain.

### 8. Mounting replacing the edger blade

1. Align the output shaft hole with the locking rod slot. Insert the locking rod through the locking rod slot and into the output shaft hole.
2. Keep the locking rod in place by holding it next to the shaft housing.
3. While holding the locking rod, loosen the lock nut by turning it clockwise with a wrench.
4. Remove the locking rod. Remove the lock nut, blade retainer and edger blade. Keep the lock nut and blade retainer for installing the new edger blade.
5. Install the new edger blade, blade retainer and lock nut.
6. Align the output shaft hole with the locking rod slot. Insert the locking rod through the locking rod slot and into the output shaft hole.
7. Keep the locking rod in place by holding it next to the shaft housing.
8. While holding the locking rod, tighten the lock nut by turning it counterclockwise. Make sure that the edger blade stays flat and centered against the output shaft while tightening the lock nut.  
If you have a torque wrench, tighten the lock nut to 325-335 in.·lbs (37-38 N·m).  
If you do not have a torque wrench, tighten the lock nut with a wrench, until the lock nut presses against the blade retainer and the edger blade is snug. Make sure the edger blade is installed correctly, then rotate the nut an additional 1/4-1/2 turn.
9. Remove the locking rod.



**WARNING:** Make sure the blade is flat against the output shaft after the lock nut is tightened. If the blade is off-center, the unit will be damaged by vibration, and the blade may fly off, which can cause serious personal injury.



**5. Fit the belt. According to picture showing, fit the belt well.**



**OPERATION**

When operating this machine, please follow the instructions for operations steps.

**1. Filling with fuel**



**Danger of injury!**

Fuel is explosive!

- Turn off and cool the motor down before filling the tank with fuel.
- You must observe all safety instructions relating to handling fuel.



**Risk of device damage!**

The device is supplied without motor or gearbox oil.  
Before operating, you must fill it with fuel.

Never use oil for 4-cycle engine use or water-cooled 2-cycle engine. It can cause spark plug fouling, exhaust port blocking or piston ring sticking.

Mixed fuels, which have been left unused for a period of one month or more may clog the carburetor or result in the engine failing to operate properly. Put remaining fuel into an airtight container and keep it in the dark and cool room.

**Mix a regular grade gasoline (leaded or unleaded, alcohol-free) and a quality-proven motor oil for air-cooled 2 cycle engines.**

**RECOMMENDED MIXING RATIO**

**GASOLINE 50: OIL 1**

**WARNING! Take care of the emission of exhaust gases. Always shut off engine before fueling. Never add fuel to a machine with a running or hot engine. Take care of fire!**

**WARNING! Never smoke whilst refueling and avoid inhaling the petrol fumes.**

**WARNING! Carefully open the tank top as pressure could have formed inside.**

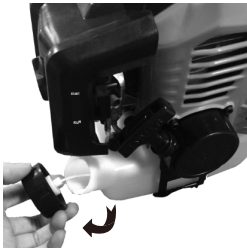
### Before refuelling:

- Shake the fuel mixture container well.
- Place the machine on a flat stable surface, with the fuel tank cap facing upwards.
- Clean the fuel tank cap and the surrounding area to avoid any dirt from entering the tank during refilling.
- Carefully open the fuel tank cap to allow the pressure inside to decrease gradually. Use a funnel to refill and avoid filling the tank to the brim.
- Unscrew the tank cap and remove it.
- Pour in the fuel carefully, avoid spilling.
- Screw the tank cap on firmly by hand.



### Draining fuel

- Hold a collection container beneath the fuel drain bolt.
- Unscrew the tank cap and remove it.



- Allow the fuel to run out completely.
- Screw the tank cap on firmly by hand.

**WARNING! Always close the fuel tank cap firmly.**

**WARNING! Immediately clean all traces of fuel which may have dripped on the machine or the ground and do not start the engine until the petrol fumes have dissipated.**

## Start on the unit

Do not start the unit until it has been completely assembled. Before switching on the unit, always check the oil.

### Check before use!



#### **Danger of injury!**

Do not operate the device unless you did not find any faults. If a part has become defective, make sure to replace it before you use the device again.

Check the safe condition of the device:

- Check the device for leaks.
- Check the device for visual defects.
- Check that all parts of the device have been securely fitted.
- Check that all safety devices are in proper condition.



#### **Danger of injury!**

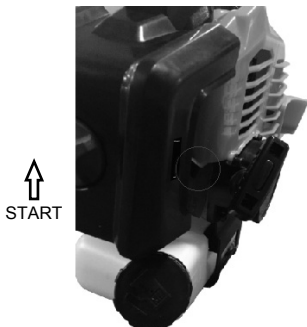
Before starting work, always check the ground and remove all objects which could be thrown by the device.

Once the machine has been set up properly, start the engine as follow:

1. Press the fuel pump more than 10 times.



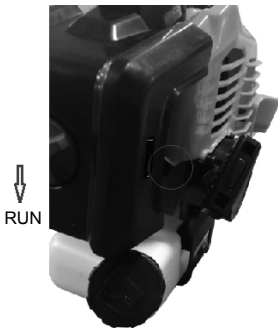
2. Put the choke lever on the (START) position.



3. Pull the recoil starter handle 3-5 times to start the engine. Hold the machine firmly on the ground with one hand on the power unit, in order not to lose control of the machine during startup as following picture.



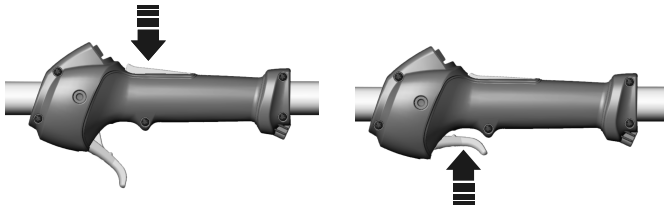
4. Pull the starter grip slowly for 10 - 15 cm until you feel some resistance, then tug it a few times until you hear the engine turn over. Then adjust the choke lever to (RUN) position.



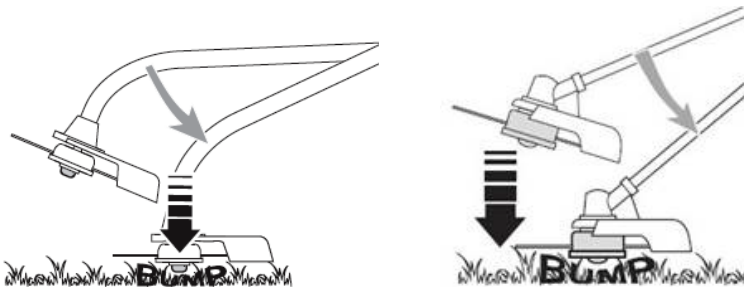
5. Pull the starter grip again until the engine starts as normal.



6. When the engine is running and idling, the throttle lever on handle is as below picture. First press the lock off lever and then switch the throttle lever on, the machine will be working.



7. Adjusting line length when working: This machine is fitted with a "Tap & Go" head. To release more line, tap the cutting line head against the round with engine at top speed: the line will be released automatically and the knife cut off the excess length.



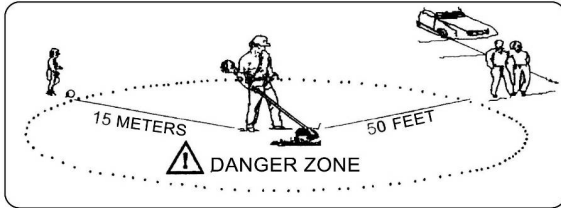
8. If meet any problem occurs, press the engine switch, the machine will stop running. If need stop cutting head working, release the throttle lever.



9. If any problem occurs, pull the pin of safety belt, then release the brush cutter immediately.

10. If the machine is hot, the throttle level can be adjusted to ON position directly when restart the machine.

11. **WARNING!** Do not use the machine for sweeping, tilting the cutting line head. The power of the engine could throw objects and small stones 15 metres or more, causing damage or injuries to people.



**Note:**

1. Do not start the motor in tall grass
2. While mowing, lay the connection cable safely on footpaths and on areas which have already been mown.
3. When the engine has been switched off, the cutter continues running for several seconds therefore do not get close to the cutting head of the brush cutter until the cutter has come to a standstill!

When the engine has been switched off, the cutter continues running for several seconds therefore do not close to cutting head of grass trimmer until the cutter has come to a standstill!

- The design of the petrol brush cutter allows for operation only at the right side of the user's body.
- Keep the petrol brush cutter firmly with both hands on the handles.
- Always make sure that the cutting tool continues to rotate briefly after the throttle has been released.
- Always so that the cutting tool no longer turns in a proper engine idle not press down the throttle.
- Always work with high speed so you have the best cutting results.
- Poke when working on a stone or a tree, turn off the engine and remove the spark plug then examine the petrol brush cutter for damage.
- Caution: Always be extra careful when working in difficult terrain and slopes. Cut tall grass gradually so as not to overload the unit.
- Always wear safety glasses and hearing protection and a safety helmet.

### **Mowing with grass trimmer**

- Use the plastic line cassette for a clean cut also at uneven edges, fencing posts, and trees.
  - Carefully advance the trimming line to an obstacle, and use the tip of the line to cut around the obstacle.
  - When the trimming line comes into contact with stones, trees, and walls, the line wears out or breaks off ahead of time.
  - Swing the petrol cutting blade like a normal scythe horizontally from right to left and back again. You define the cutting height depending on how high you are holding the tool.
  - Never replace the nylon line with a metal wire.
- RISK OF INJURIES**

### **Mowing with brush cutter and hedge trimmer**

- Use the cutting blade to comb through brushwood, rank growth, young tree populations (trunk diameter of maximum 2 cm), and high grass.
- While using metal cutting tools, there is generally a risk of recoil, when the tool hits a solid obstacle (stones, trees, branches, etc.). Thereby, the tool is hurled backwards against the rotating direction.
- To cut rank growth and brushwood, you "immerse" the cutting blade from the top.

**CAUTION:** Be especially careful, when using this working technique, because the further away the cutting tool is from the ground, the higher is the risk that objects to be cut and particles will be hurled sideways.

**CAUTION:** Incorrect use and misuse can damage the brush cutter and cause severe injuries because of pieces hurled away.

To minimize the risk of accidents by use of the cutting blade, take note of following points:

- Never cut shrubbery or wood whose diameter is larger than 2 cm.
- Avoid contact with metal bodies, stones, etc.
- Periodically check the cutting blade for damages. Never continue to use a damaged cutting blade.
- When the cutting blade becomes apparently blunt, it must be sharpened according to instructions. When the cutting blade is apparently out of balance, it must be replaced.

### **Automatic thread trimming**

The petrol cutting blade is delivered with a filled line cassette. This line will wear out during work. To feed new line, forcefully press the head of the line cassette onto the ground while the engine is running at working speed. The line is automatically fed due to centrifugal force. The knife at the line guard will shorten the trimming line to the correct length. Run the trim line approach cautiously to an obstacle and cut with the tip of the line around the obstacle.

## **Working with pole saw**

### **Precautions for Saw procedure**

Never stand under the branch you want to saw. Use special caution when working with branches under tension and splintering wood. Possible risk of injury caused by falling branches and catapulting pieces of wood. In general, it is recommended to set the pruning saw at an angle of 60 ° to the road.

Keep both hands well with the device during the cutting process and pay you up to an equilibrium position and a good level.

- Never try to use your tool with one hand. The loss of control of your tool can cause serious injury or death. Never work on a ladder, a tree branch or other unstable surfaces.
- Never cut with the upper edge or the tip of the cutter bar.
- Make sure that the chain tension is always correctly adjusted.
- Practice for guiding the device slight pressure, but you do not overload the motor.

Clear the work area before cutting interfering branches and undergrowth. Then you create a retreat area, far from the spot where the cut branches fall on, and remove any obstacles there. Keep the work area clean, remove the cut branches immediately. Pay attention to your point, wind direction and the possible direction of fall of the branches. Be prepared that fallen branches can strike back. Place all other tools and equipment at a safe distance from the branches to be cut, but not in the retreat area.

### **Always observe the condition of the tree.**

Look for rot and decay in the roots and branches. If they are rotten inside, they can break off and fall down unexpectedly during cutting.

You could also attend by fractured and dead branches out, which is solved by the shake and fall on you. For very thick or heavy branches you first make a small incision below the branch before you work from the top down to avoid chipping.

### **Basic cutting technique**

Heavy branches break off easily when sawing. They tear long strips of bark away from the trunk, which damages the tree sustainably. The following section technique can significantly reduce this risk:

- Saw the first branch about 10 cm from the trunk.
- Put in about 15 cm from the base of the top of a further section.
- Saw until the branch breaks. The risk of injury on the trunk is no.
- Finally, remove with a clean cut from the top of the trunk along the remaining.
- Thus, the damage to the tree are kept as low as possible, we recommend the interface additionally to seal with grafting wax.

### **Hazards by reactive forces**

Reactive forces occur during operation of the saw chain. The forces which are applied to the wood are against the operator. They occur when the moving chain comes into contact with a fixed object such as a branch or is pinched. These forces can lead to a loss of control and injury.

Understanding the origin of these forces can help you to avoid the scare and the loss of control. This saw is designed to make the return effects are not as noticeable as with traditional chainsaws.

Always still keep a firm grip and a good level to maintain control of the tool in doubt.



The most common effects are:

- setback
- recoil,
- retreat

### **Kickback**

The setback can occur when the moving saw chain meets at the upper quarter of the guide rail on a solid object or is pinched.

The cutting force exerted on the chain from the saw, a rotational force in the opposite direction to the chain travel. This leads to an upward movement of the guide rail.

### **Avoid kickback**

The best protection is to avoid situations that lead to setbacks.

1. Keep the position of the upper guide rail always in mind.
2. Leave this place never come into contact with an object. Cut anything with it. Be especially careful near wire fences and cutting small, hard knots, in which the chain can easily pinch.
3. Cut only one branch at a time.

### **Withdrawal**

The withdrawal occurs when the chain on the underside of the bar suddenly stuck because it is jammed or encounters a foreign object in the wood. The chain then pulls the saw forward. The withdrawal often happens when the chain is not running at full speed when in contact with the wood.

### **Avoid withdrawal**

Be aware of the forces and situations that can lead to jamming of the chain on the underside of the bar.

Always start with running at full speed chain to cut.

### **Recoil**

The recoil occurs when the chain on top of rail suddenly stuck because it is jammed or encounters a foreign object in the wood. The chain can jerkily hold the saw against the operator. Rebounds happen often if the top rail is used for cutting.

### **Avoid recoil**

Be aware of the forces and situations that can lead to jamming of the chain on top of rail.

Do not cut more than one branch at a time.

Do not tilt the rail to the side when you pull them out of a cutting gap, since the chain could get caught otherwise.

## Working with edger

### Holding the unit



**WARNING:** Always wear eye, hearing, hand, foot and body protection to reduce the risk of injury when operating this unit

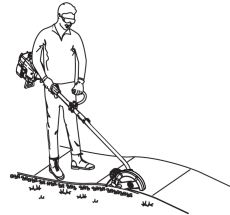
Stand in the operating position.

Hold the shaft grip with the right hand. Keep the right arm slightly bent.

Hold the handle with the left hand. Keep the left arm straight.

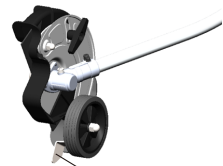
Hold the unit at waist level.

Hold the unit so that it easily contacts the ground without the need for bending over.



### Tips For Best Results

- Keep the wheel on the sidewalk or pavement.
- To protect the sidewalk or pavement from damage, keep the edger guide in contact with the edge of the sidewalk or pavement.
- Use the alignment guide to help maintain proper alignment.
- Keep the blade perpendicular to the ground.
- **DO NOT** force the unit. Make the first cut no more than 1/2" deep. Increase the depth by 1/2" and cut the area again. Repeat this process until the desired depth is achieved. Refer to *Adjusting the Cutting Depth*.
- Cut at a slow, even pace.
- Frequently check the condition of the blade. As it wears, the blade will become smaller, reducing the cutting depth. Replace the blade as needed. Refer to *Replacing the Edger Blade*.



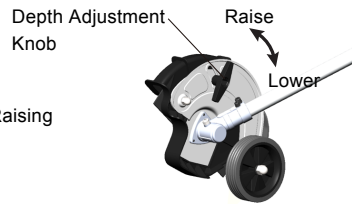
Alignment Guide

### Adjusting The Cutting Depth

1. Stop the unit and allow it to cool.
2. Disconnect the spark plug wire.
3. Loosen the depth adjustment knob.
4. Slide the wheel up or down to the desired height.

**NOTE:** Lowering the wheel will decrease the cutting depth. Raising the wheel will increase the cutting depth.

5. Tighten the depth adjustment knob.
6. Reconnect the spark plug wire and continue use.



## ROUTINE MAINTENANCE

Correct maintenance is essential to maintain the original efficiency and safety of the machine over time.

**Before performing any maintenance or cleaning work, always turn off the engine.**

1. Do not spray the unit with water. Ingress of water may damage the engine and electrical connection.
2. Clean the unit with a cloth, hand brush, etc.

**WARNING!** During maintenance operations:

- Remove the spark plug cap.
- Wait until the engine is sufficiently cold.
- Never dispose of oils, fuel or other polluting materials in unauthorized places.

<b>Maintenance schedule</b>			
	12 hours of use	24 hours of	36 hours of
Air filter	clean	clean	replace
Spark plug	check	clean	replace

**Expert inspection is required:**

- a) If the grass trimmer strikes an object.
- b) If the motor stops suddenly
- c) If the nylon cutter is damaged
- d) If the gears are damaged.

Replacing and recleaning the nylon spool at the end of the trimming season. Always re-cleaned the nylon spool or, if required, replace the nylon spool with a new one. Always have the nylon spool re-cleaned or replaced by a customer service centre.

### STORAGE

At the end of each working session, carefully clean the machine of dust and debris, and make sure that there are no damaged parts, replacing any faulty parts. The machine must be stored in a dry place away from the elements and with the cover correctly fitted.

### CLEANING THE ENGINE AND THE SILENCER

To reduce fire risks, periodically clean the cylinder fins with compressed air and clear the silencer area to get rid of sawdust, branches, leaves or other debris.

### STARTING UNIT

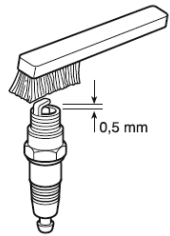
To avoid overheating and damage to the engine, always keep the cooling air vents clean and free of sawdust and debris. If you notice signs of wear on the starter cable, contact your Dealer for a replacement.

### NUTS AND SCREWS

Periodically check that all the nuts and screws are securely tightened and the handgrips are tightly fastened.

## Change and clean the spark plug

- Periodically remove and clean the spark plug using a metal brush to get rid of any deposits.
- Check and reset the correct distance between the electrodes.
- Replace the spark plug and fasten it firmly using the supplied wrench.
- The spark plug must be replaced with one with the same characteristics whenever the electrodes have burnt or the insulation has worn, and in any case every 100 working hours.



## Clean the air filter

**IMPORTANT** Cleaning the air filter is essential to guarantee the efficiency and duration of the machine. Do not work with a damaged filter or without a filter, as this could permanently damage the engine. It must be cleaned after every 12 working hours.

Clean the filter as follows:

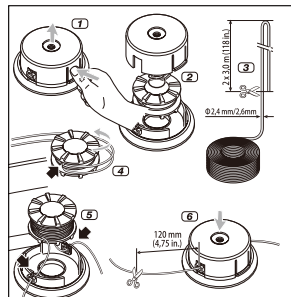
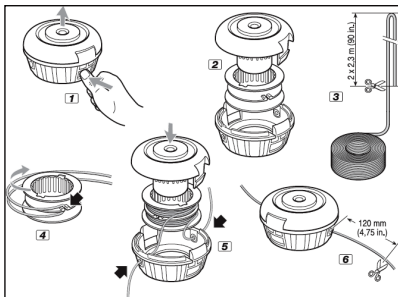
- Loosen the knob, remove the cover and the filter element
- Wash the filter element with soap and water. Do not use petrol or other solvents.
- Leave the filter to dry in the open air.
- Fit the filter element and the cover back on, tightening the knob again



## Warning!

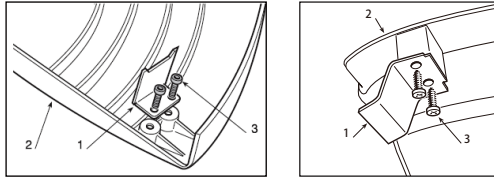
Never run the engine without the air filter element installed.

## Head line replacement



## SHARPENING THE LINE CUTTING KNIFE

- Remove the line cutting knife (1) from the guard (2) by unscrewing the screws (3).
- Fix the line cutting knife in a vice and sharpen it using a flat file, being careful to retain the original cutting angle.
- Refit the knife on the guard.



## Care of the guide rail

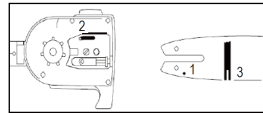
Turn the rail around every time you have the chain sharpened or replaced. This will avoid a one-sided wear of the rail, especially at the top and bottom.

Regularly clean

1 = the opening for the oil supply

2 = the oil passage

3 = the raceway groove of the rail



## Servicing and sharpening of saw chain

The correct sharpened chain

Working effectively with the chainsaw is only possible if the chain is in good condition and sharp. This also reduces the risk of kickback. The chain can be re-sharpened by any dealer. Do not attempt to sharpen the chain yourself unless you have the necessary special tools and experience. A properly sharpened chain goes way through the wood and it requires very little pressure. Do not work with a dull or damaged chain. It increases physical exertion, increase the vibrations and leads to unsatisfactory results and higher wear.

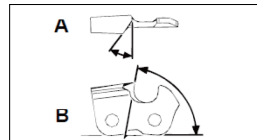
- Clean the chain.
- Check it.
- Replace damaged or worn parts with matching spare parts they are in the shape and size of the original parts as necessary.
- Sharpening a chain should be performed only by experienced users!

Notice. Below the angle and dimensions If the chain is not properly sharpened or the depth is too small, there is a higher risk of reversion effects and resulting injuries! The chain cannot be fixed on the guide rail. It is therefore best to remove the chain from the rail and then sharpen.

- Select the appropriate tools for the chain pitch sharpening tool. See "Specifications" for the allowed chain pitches.

A = filing angle

B = the angle of the side plate



The angle must also be maintained for all knives.

For irregular angles, the chain is run irregularly, wear quickly and break down prematurely.

Since these requirements can only be met with sufficient and regular exercise:

- A File Holder must be used when sharpening the saw chain by hand. The correct filing angle marked on it.
- Hold the file horizontally (at a right angle to the guide rail) and file according to the angle mark on the file holder. Support the file holder on the top plate and depth gauge.
- File down. The knife is always from the inside to the outside
- The file sharpens only in forward motion. Lift it off in the backward motion.
- Do not touch the dynamic links with the file.
- Turn the file regularly continue to avoid a onesided wear.
- Remove to remove a piece of hard wood, bones raw edges.

All knives must have the same length, otherwise they will also vary. As a result, the chain is irregular and it increases the risk of going broke.

### Lubricate angle transmission

Lubricate with lithium-based grease. Remove the screw and put in the grease, turning the shaft manually until grease emerges, then replace the screw.

## CLEANING AND STORAGE

### CLEANING



**WARNING:** To avoid serious personal injury, always stop the engine and allow it to cool before cleaning or maintaining the unit.

Use a small brush to clean the outside of the unit. Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic. Wipe off any moisture with a soft cloth.

### STORAGE

- Never store a fueled unit where fumes may reach an open flame or spark.
- Allow the engine to cool before storing.
- Lock up the unit to prevent unauthorized use or damage.
- Store the unit in a dry, well-ventilated area.
- Store the unit out of the reach of children.
- To suspend the attachment from a hook, install the hanger cap onto the attachment. Make sure the release button is securely locked into one of the holes on the hanger cap.

### Short-term Storage (1-2 weeks)

1. Store the unit in a horizontal position. If this is not possible, store the unit vertically with the engine at the top.

### Long-term Storage

1. Remove the fuel cap, tip the unit and drain the fuel into an approved container. Reinstall the fuel cap.
2. Start the engine and allow it to run until it stalls. This ensures that all fuel has been drained from the carburetor.
3. Allow the engine to cool. Remove the spark plug and put 5 drops of any high-quality motor oil or 2-cycle oil into the cylinder. Pull the starter rope slowly to distribute the oil. Reinstall the spark plug.
4. Thoroughly clean the unit and inspect it for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.

### Preparing the Unit for Use after Long-term Storage

1. Remove the spark plug. Tip the unit and drain all of the oil from the cylinder into an approved container. Reinstall the spark plug.

**NOTE:** Do not use fuel that has been stored for more than 30 days. Dispose of old fuel and oil according to federal, state and local regulations.

## TROUBLESHOOTING

The table below contains a list of fault symptoms and explains what you can do to remedy the problem if your equipment fails to work properly. If the problem still persists after working through the list, please contact your nearest service workshop.

### Important hint in case of sending the equipment to a service station:

Due to security reasons please see to it that the equipment is sent back free of oil and gas!

Fault	Possible cause	Remedy
Machine does not start.	<ul style="list-style-type: none"> <li>• Air filter is contaminated.</li> <li>• Fuel filter is blocked.</li> <li>• Lack of fuel supply.</li> <li>• Fault in the fuel line.</li> <li>• Starting device is faulty.</li> <li>• Engine stalled.</li>   <li>• Spark plug cap not attached.</li> <li>• No spark.</li>   <li>• Engine faulty.</li> <li>• Carburetor faulty</li> </ul>	<ul style="list-style-type: none"> <li>• Clean/replace the air filter.</li> <li>• Clean or renew the fuel filter.</li> <li>• Re-fuel.</li> <li>• Check the fuel line for kinks or damage.</li> <li>• Contact the service centre.</li> <li>• Remove the spark plug, clean and dry it; then pull the starter rope several times; re-fix the spark plug.</li> <li>• Check the correct position of the spark plug cap.</li> <li>• Clean the spark plug or replace it, if applicable.</li> <li>• Check the ignition cable for damage.</li> <li>• Contact the service centre.</li> <li>• Contact the service centre.</li> </ul>
Machine starts but stops again.	<ul style="list-style-type: none"> <li>• Wrong carburetor setting (idle speed).</li> </ul>	<ul style="list-style-type: none"> <li>• Contact the service centre.</li> </ul>
Engine starts but the cutting tool stops.	<ul style="list-style-type: none"> <li>• Cutting tool blocked.</li> <li>• Internal fault (drive shaft, gearbox).</li> <li>• Clutch faulty.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn off engine and remove object.</li> <li>• Contact the service centre.</li> <li>• Contact the service centre.</li> </ul>
Machine works with interruptions (sputtering).	<ul style="list-style-type: none"> <li>• Carburetor set up incorrectly.</li> <li>• Spark plug is sooty.</li> <li>• On/off switch faulty.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact the service centre.</li> <li>• Clean the spark plug or replace it.</li> <li>• Contact the service centre.</li> </ul>
Smoke is generated.	<ul style="list-style-type: none"> <li>• Wrong fuel mix.</li> <li>• Carburetor set up incorrectly.</li> </ul>	<ul style="list-style-type: none"> <li>• Use two-stroke mixture at a ratio of 50:1.</li> <li>• Contact the service centre.</li> </ul>
Machine does not work at full power.	<ul style="list-style-type: none"> <li>• Machine is overloaded.</li> <li>• Air filter is contaminated.</li> <li>• Carburetor set up incorrectly.</li> <li>• Silencer is blocked.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not use force during mowing/trimming.</li> <li>• Clean the air filter or replace it.</li> <li>• Contact the service centre.</li> <li>• Check the exhaust.</li> </ul>
Brush cutter does not work at full power.	<ul style="list-style-type: none"> <li>• Blades are blunt or damaged.</li> <li>• Cut material is too high (machine overload).</li> </ul>	<ul style="list-style-type: none"> <li>• Sharpen or replace blades.</li> <li>• Cut the grass in phases.</li> </ul>
Grass trimmer does not work at full power.	<ul style="list-style-type: none"> <li>• Cutting line too short or damaged.</li> <li>• Machine is overloaded because the grass is too high.</li> </ul>	<ul style="list-style-type: none"> <li>• Feed more cutting line through or replace it.</li> <li>• Cut the grass in phases.</li> </ul>
Cutting line cannot be fed through.	<ul style="list-style-type: none"> <li>• Spool empty.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace spool.</li> </ul>
Pole saw does not saw, it plucks or vibrates.	<ul style="list-style-type: none"> <li>• Chain tension too high.</li> <li>• Chain blunt.</li> <li>• Chain attached incorrectly.</li> <li>• Chain worn.</li> </ul>	<ul style="list-style-type: none"> <li>• Check and reset chain tension.</li> <li>• Have the chain sharpened or replace it.</li> <li>• Re-attach the chain.</li> <li>• Replace the chain.</li> </ul>
Saw chain becomes hot or saw chain lubrication does not work.	<ul style="list-style-type: none"> <li>• No oil in the tank.</li> <li>• Oil line blocked.</li> <li>• Chain tension too high.</li> <li>• Chain blunt.</li> </ul>	<ul style="list-style-type: none"> <li>• Refill oil.</li> <li>• Clean the oil line.</li> <li>• Set the chain tension.</li> <li>• Have the chain sharpened or replace it.</li> </ul>

If further assistance is required, contact an authorized service dealer.

## NOTES



# MANUFACTURER'S LIMITED WARRANTY

The limited warranty set forth below is given by Badger with respect to new merchandise purchased and used in the United States, its possessions and territories .

Badger warrants this product against defects in material and workmanship for a period of three (3) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in material or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water or damage because of other peril or natural disaster. Damage resulting from the installation or use of any accessory or attachment not approved by Badger for use with the product(s) covered by this manual will void your warranty as to any resulting damage. This warranty is limited to ninety (90) days from the date of original retail purchase for any Badger product that is used for rental or commercial purposes, or any other income-producing purpose.

**HOW TO OBTAIN SERVICE:** Warranty service is available, WITH PROOF OF PURCHASE THROUGH YOUR LOCAL AUTHORIZED SERVICE DEALER. To locate the dealer in your area, call **1-844-786-7335**. No product returned directly to the factory will be accepted unless prior written permission has been extended by the Customer Service Department of Badger.

**This limited warranty does not provide coverage in the following cases:**

- A. Tune-ups - Spark Plugs, Carburetor Adjustments, Filters
- B. Wear items - Bump Knobs, Outer Spools, Cutting Line, Inner Reels, Starter Pulley, Starter Ropes, Drive Belts, Saw Chains, Guide Bars, Cultivator Tines, Blades.
- C. Badger does not extend any warranty for products sold or exported outside of the United States of America, its possessions and territories, except those sold through Badger's authorized channels of export distribution. Badger reserves the right to change or improve the design of any Badger Product without assuming any obligation to modify any product previously manufactured.

**No implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty or guaranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product shall bind Badger. During the period of the Warranty, the exclusive remedy is repair or replacement of the product as set forth above.** (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

**The provisions as set forth in this Warranty provide the sole and exclusive remedy arising from the sales. Badger shall not be liable for incidental or consequential loss or damages including, without limitation, expenses incurred for substitute or replacement lawn care services, for transportation or for related expenses, or for rental expenses to temporarily replace a warranted product.** (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. Alteration of the safety features of the product shall void this Warranty. You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the use or misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser, original lessee or the person for whom it was purchased as a gift.

**How State Law Relates to this Warranty:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To locate your nearest service dealer, dial **1-844-786-7335** in the United States.

**BADGER**  
E6CC

