

## BRUSHCUTTER & LINE TRIMMER (BCL330 & BCL440)



# Owner's Manual

### 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 Morrison Brushcutter & Line Trimmer (models BCL330 & BCL440).

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**WARNING!**

Do not operate this machine before it has been assembled correctly and you have read and understood these instructions.

Keep the instructions in a safe place for future use.

**INTRODUCTION**

This product has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

This product is only intended for use outdoors.

**Symbols on the Machine**

	<b>THREATENED HAZARD OR HAZARDOUS SITUATION.</b> Not observing this instruction can lead to injuries or cause damage to property.		<b>WEAR EYE, EAR &amp; HEAD PROTECTION</b>
	<b>IMPORTANT INFORMATION ON PROPER HANDLING.</b> Not observing this instruction can lead to faults in the machine.		<b>IDLE RPM</b>
	<b>USER INFORMATION.</b> This information helps you to use all the functions correctly.		<b>WEAR SAFETY BOOTS</b>
	<b>READ OWNERS MANUAL</b>		<b>ALWAYS USE SAFETY GUARD</b>
	<b>ALWAYS USE SAFETY GUARD</b>		<b>HAZARD AREA 15M RADIUS</b>
	<b>CHOKE CLOSED</b>		<b>LINE HEAD RPM</b>
	<b>CHOKE OPEN</b>		<b>METAL BALDE RPM</b>
	<b>WEAR SAFETY GLOVES</b>		

**PROPER USE**

For safety reasons, the Brushcutters and Line Trimmers are not to be used by children, young people under 16 years of age, or any other persons who are not acquainted with these directions for use.

**WARNING!**

Specific safety information Please read this safety information and the directions for use carefully and be sure to follow the instructions to the letter.

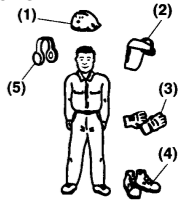
1. This machine should never be used for anything other than the purpose for which it has been designed.
2. Do not use this brush cutter when tired or drowsy or under the influence of medication or alcohol, or at any time when you may not be able to operate it safely.



3. Avoid running the engine indoors. The exhaust gases contain harmful carbon monoxide.
4. Never use the machine in the circumstances described below:
  - When the ground is slippery or when other conditions exist which might make your footing unsteady.
  - At night or in times of fog where it would not be possible to have a clear view of the cutting area.
  - During rain or electrical storms, during gale force winds or at any time when weather conditions might make use of the product unsafe.
5. Before using this product for the first time, get an experienced operator to show you how to use the machine.
6. When you are new to the machine, limit your work sessions to 30-40 minutes with a 10 minute break between, and a total working time of 2 hours per day. Accidents can be caused by tiredness and physical exhaustion.
7. Be sure to keep this manual handy so that you may refer to it later if any questions arise.
8. Always be sure to include this manual when selling, or lending, this machine.
9. Never allow children or anyone to use this machine if they cannot fully understand the directions given in this manual.

**WORKING GEAR AND CLOTHING**

1. When using your brush cutter, you should wear long, close fitting trousers and protective equipment as follows.

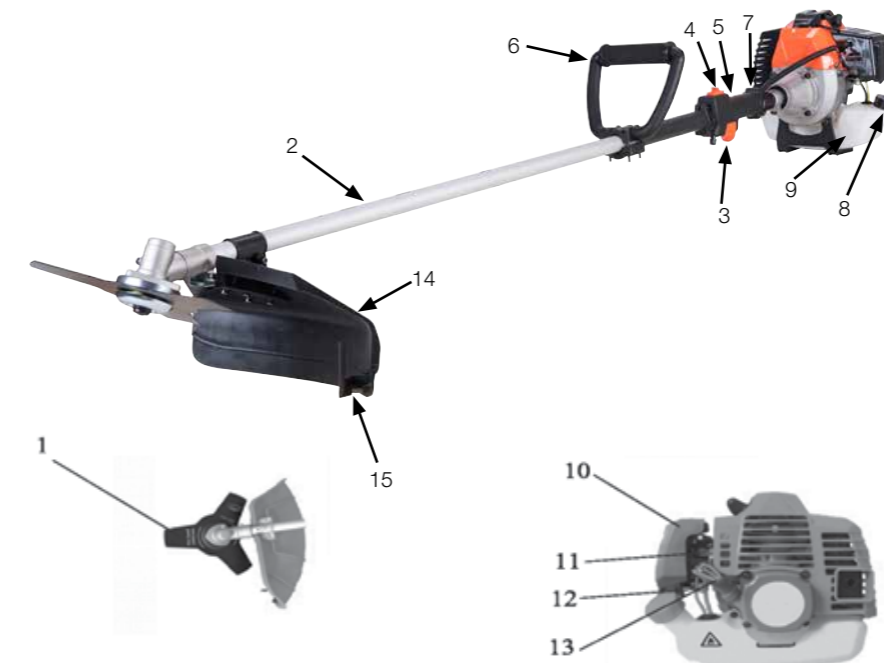


- (1) Helmet
- (2) Protection goggles or face protector
- (3) Thick work gloves
- (4) Non-slip-sole work boots
- (5) Ear protectors

2. You should carry with you the following things as appropriate.
  - A. Reserve fuel
  - B. A spare blade
  - C. Something to indicate your working area. (Yellow rope, warning signs)
  - D. Hatchet or saw (for removal of obstacles)
5. Never use your brush cutter when barefoot or in sandals or wearing trousers with loose cuffs.

**FUEL HANDLING WARNING**

1. The engine of this product is designed to run on a mixture of highly flammable petrol and oil. Do not store cans of fuel or refill the fuel tank in any place where there is a boiler, stove, wood fire, electrical or welding sparks, or any other source of heat or fire which might ignite the fuel.
2. Smoking while operating the brush cutter or refilling its fuel tank is extremely dangerous. Always be sure to keep lit cigarettes away from the brush cutter at all times.
3. When refilling the tank always turn off the engine first, wait for it to cool, and take a careful look around to make sure that there is nothing nearby which might ignite spilled fuel.
4. To avoid spilling fuel, always use a funnel when filling the fuel tank.
5. If any fuel spillage occurs during refuelling, use a dry rag to wipe up the spillage before starting the engine again.
6. After refuelling, screw the fuel cap back tightly onto the fuel tank and then carry the brushcutter to a spot 3m or more away from where it was refuelled before starting the engine.

**Parts Location****LINE TRIMMER BCL330**

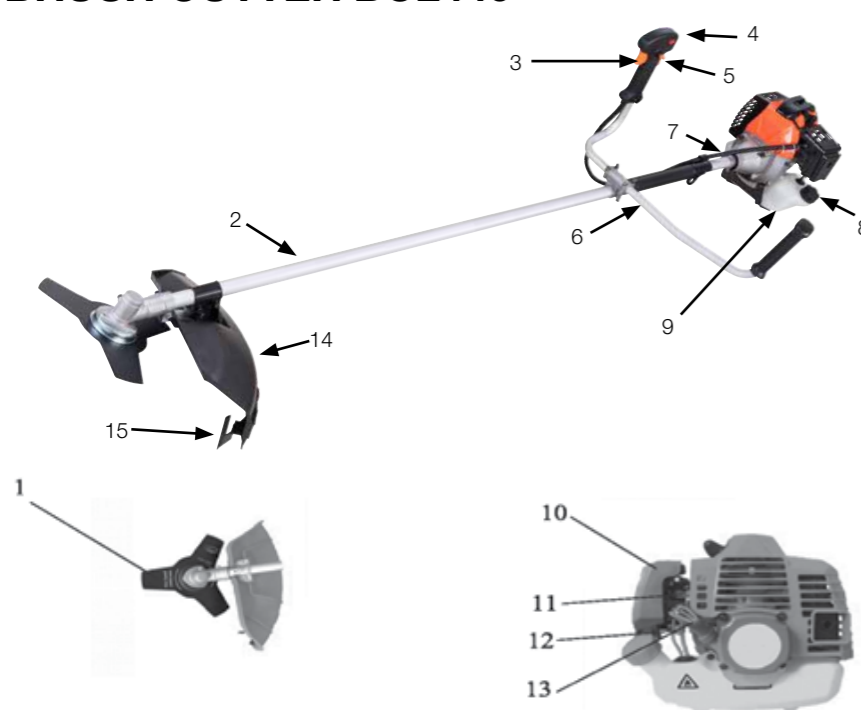
1	Blade
2	Drive Shaft Assembly
3	Throttle lever
4	Ignition switch
5	Safety lever
6	Handle
7	Harness attachment bracket
8	Fuel cap
9	Fuel Tank
10	Air clear
11	Primer bulb
12	Choke
13	Starter Handle
14	Guard
15	Line cutting blade

## LINE TRIMMER BCL440



1	Blade
2	Drive Shaft Assembly
3	Throttle lever
4	Ignition switch
5	Safety lever
6	Handle
7	Harness attachment bracket
8	Fuel cap
9	Fuel Tank
10	Air clear
11	Primer bulb
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13	Starter Handle
14	Guard
15	Line cutting blade

## BRUSH CUTTER BCL440

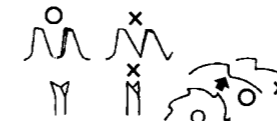


1	Blade
2	Drive Shaft Assembly
3	Throttle lever
4	Ignition switch
5	Safety lever
6	Handle
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13	Starter Handle
14	Guard
15	Line cutting blade

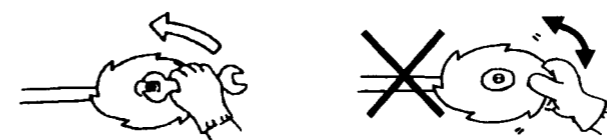
## Safety Precautions

### BEFORE BEGINNING ANY WORK

- Before beginning work, check the worksite carefully to see whether there are any obstacles to be removed or avoided and whether there are any potholes or obstructions which might cause you to lose your footing.
- The area within a radius of 15m of the brush cutter should be considered a hazardous area into which no one should enter while the brush cutter is in use. If necessary, yellow warning rope or warning signs should be placed around the work area. When work is to be performed simultaneously by two or more persons, constantly be aware of the location of other operators to maintain a safe separation distance.
- Make sure that there are no loose screws or bolts, fuel leaks or any other problems, which might result in unsafe operation. Be especially careful to check the blades and their fastening arrangements.
- Never use blades that are bent, warped, cracked, broken or damaged in any way.
- Always keep metal blades sharp by filing the cutting edges, particularly at the outer ends. There should be a radius at the inside end of the cutting edge.



- Check the blade fastening bolt and be sure the blade turns smoothly without abnormal noise.



### BEFORE STARTING THE ENGINE

- Take a careful look around to make sure that there are no obstacles within a radius of 15m around the brush cutter.
- Place the body of the brush cutter onto the ground in a flat clear area and hold it firmly in place to ensure that the blades will not contact anything when the engine starts.
- Place the trigger grip in the START position when starting the engine. Do not start the engine at full speed. (See STARTING THE ENGINE, page 8.)
- After starting the engine, if the blades continue to rotate when the trigger grip has been released to the idle position, turn off the engine and check that the trigger grip cable is functioning correctly.

### KICKBACK SAFETY PRECAUTIONS



#### WARNING!

A dangerous reaction may occur if the spinning blade contacts a solid object. It is called kick back. As a result, the operator can lose control of the unit, resulting in a serious accident.

To avoid kick back, observe the following safety precautions:

- Before beginning work, check your working area and remove any obstacles.
- Grip your brushcutter only by the handles.
- When using your brushcutter, always look closely at where you are cutting. If you need to look away, set the engine to idling speed.
- When the engine is running, always keep the cutter head well away from your feet, and never lift it above waist level.

### OPERATING SAFETY PRECAUTIONS

- Grip the brush cutter firmly with both hands, using the correct hand positions. When not cutting, set the engine speed to idling.
- Always be sure to maintain a safe footing while working.
- Run the engine no faster than the speed required to cut cleanly.
- If grass gets caught in the blade during operation, or if you need to check the unit or refuel the tank, always be sure to turn off the engine.

- If the blade touches a hard object like a stone, immediately stop the engine and check the blade. If necessary, replace the blade by new one.
- If someone calls out while you are working, always be sure to turn off the engine before turning around.



- Never touch the spark plug or plug cord while the engine is running. Doing so may result in receiving an electrical shock.



- Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is running or immediately after shutting down the engine as serious burns may result.



- Stop the engine when moving from one work location to another.

### SAFETY MAINTENANCE

- Perform the regular maintenance procedures described in this manual. Repair and maintenance procedures other than those detailed in this manual should be carried out only by an authorised service dealer.
- Under no circumstances should you take apart the brushcutter or alter it in any way. Doing so can result in damage to the machine, and may negate the manufacturer warranty.
- Always be sure to turn off the engine before performing any maintenance or checking procedures.
- To prevent injury when sharpening, removing, or reattaching the blade, be sure to wear thick, sturdy gloves and use only proper tools and equipment.
- When replacing the blade or any other parts, always be sure to use only genuine MORRISON spares.

### TRANSPORTATION



NOTE:

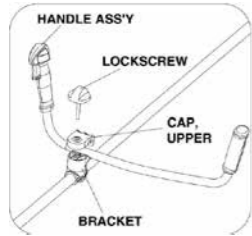
- If a metal cutting blade is fitted, wrap it with a cloth to cover the sharp cutting edges.
- When transporting by car, fix the unit firmly using a rope. It is dangerous to transport the brushcutter by cycle or motorcycle.
- When travelling distances or over rough roads, fuel may spill from the tank. To avoid this, empty the tank before the journey.



## Assembly

### BCL 440 INSTALLING THE HANDLE BARS

Install the handle in bracket. Place handle in a comfortable operating position and tighten lock screw.



### INSTALLING THE SAFETY GUARD

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!

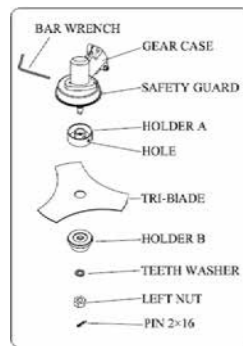
Do not operate this unit without a safety guard, if the safety guard is damaged replace immediately. Do not continue to use a damaged guard.

### INSTALLING THE BLADE

Install holder A, the tri-blade, holder B, and teeth washer, in this order, and then clamp with a left-hand thread nut.

Align hole of gear case and holder A, and insert S=4mm bar wrench. Rotate blade-fastening nut with plug box wrench in counter clockwise direction until securely tightened.

Install the pin 2x6 and disjoin it.



#### WARNING!

#### EXCESSIVE VIBRATION - STOP ENGINE IMMEDIATELY

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

Use only original cutting equipment parts when servicing the unit.

### INSTALLING THE NYLON 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.



## Fuel

1. Petrol is very flammable. Avoid smoking or bringing any flame or sparks near fuel.
2. Wipe up all spills before starting the engine.



#### WARNING!

Stop the engine and allow it cool before refuelling the unit.



#### WARNING!

Keep open flames away from the area where fuel is handled or stored.

3. Use only oil intended for 2 stroke air cooled engine use. Other oils can cause spark plug fouling, exhaust port blocking, or piston ring sticking.



#### IMPORTANT!

Fuel mixtures which have been left unused for an extended period may clog the carburettor or cause hard starting. Store unused fuel in an air-tight container in a cool place.



4. Fuel mixtures which have been left unused for an extended period may clog the carburettor or cause hard starting. Store unused fuel in an air-tight container in a cool place.
5. Mix a regular grade petrol (leaded or unleaded) and a good quality two stroke engine oil for air cooled engines. Shake them together in a clean container to ensure thorough mixing before pouring into the fuel tank. Do not use plastic containers not specifically designed for use with petrol.
6. Mixing ratio chart:



Unleaded Gasoline	2 cycle mineral oil 25:1	2 cycle semi-synthetic oil 40:1	2 cycle synthetic oil 50:1
1 L	40mL	25mL	20mL
4 L	160mL	100mL	80mL
5 L	200mL	125mL	100mL
10 L	400mL	250mL	200mL

## Operating

### STARTING THE ENGINE

Before starting the engine, inspect the entire unit for loose fittings or fuel leaks, and verify that the cutting attachment is properly installed and securely fastened.

Place the unit on a flat, firm place. Keep the cutting head clear of any obstructions.

1. Check that there is fuel in the tank and that the fuel cap is screwed on tightly.
  - 1) Cap
  - 2) Fuel tank

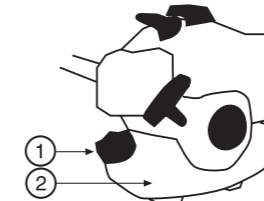


Diagram .A

2. When starting a cold engine move the choke lever (behind the air cleaner cover) to the closed position.
  - 1) Choke lever
  - 2) Closed
  - 3) Open



Diagram .B

3. If the engine has been running and is still warm, move the choke lever to the open position.
4. Press the priming bulb under the carburettor repeatedly until excess fuel can be seen returning to the tank through the clear fuel return pipe.
5. Slide the ignition switch (3) on the trigger grip away from the STOP position (See Diagram .C on the next column).
6. To set the throttle in the start position.
  - Depress the safety lever (4)
  - Squeeze the throttle lever (1) fully. Hold down the starting button (3) while releasing the throttle lever.
  - The throttle lever will be held partly open until it is squeezed again.

- 1) Throttle lever
- 2) Ignition Switch
- 3) Starting button.
- 4) Safety Lever

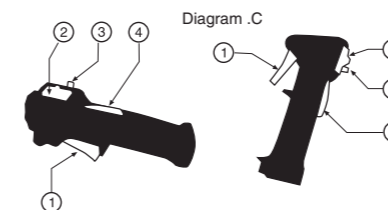


Diagram .C

7. While holding the unit firmly, pull out the starter rope quickly.
8. After the engine has started, open the choke gradually.
9. Allow the engine to run for 2 to 3 minutes to warm up before starting work.

### STOPPING THE ENGINE

1. Release the throttle lever.
2. Slide the ignition switch on the trigger grip to the STOP position.

### FITTING THE HARNESS

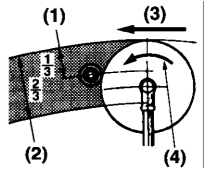


#### IMPORTANT!

The harness must always be used as the machine cannot be operated safely without it.

### CUTTING USING THE METAL BLADE

- 1) For shrubs & thick weeds
- 2) For grass and weeds
- 3) Direction of cutting
- 4) Direction of rotation



1. A metal blade cuts best with a swathe up to one third of the cutter diameter. Use that area for cutting shrubs, tough and thick weeds. For cutting young grass, you can use up to two thirds of the cutter diameter.
2. Adjust the engine speed according to the material being cut. Cut the young grass at middle speed, and shrubs or tough and thick weeds at high speed.



#### IMPORTANT!

If the cutting speed is too low, debris can be caught up in the blade, and if this causes the clutch to slip it will wear out quickly.

### CUTTING WITH THE NYLON CUTTER

- Cutting with the nylon cord consumes more power so the engine speed should be 50% greater than when using the metal blade.
- The nylon cord cuts the grass by meeting it at high speed. If you take too wide a swathe you may slow down the engine and not get clean cutting. To correct this, retract the cutter from the grass until the engine regains full speed and then cut using a narrower swathe.
- After a time the nylon cord will wear away. To restore the full cutting diameter, simply bump the cutter head on the ground while it is running at full speed. The cords will extend automatically and will be trimmed to the correct length by the cord trimmer blade mounted on the guard.
- Cut grass by swinging the brushcutter from left to right. While you can cut in either direction, if you follow these suggestions the cut grass will be thrown away from you, and you will avoid getting your clothes dirty.

## Maintenance

### BLADE

- Sharpen each cutting edge and make sure the inside corner is rounded to reduce the risk of cracking.
- Do not quench the blade with water if you are using a grinder as it may start cracks in the blade.
- The 3 tooth blade may be inverted to utilise a fresh set of cutting edges.



### NYLON CUTTERS

The spools of nylon cord inside these bump-feed cutter heads will eventually need replacing. While the change can be made with the cutter head on the machine, it will be more convenient to remove the cutter head.

### CHANGING THE SPOOL

Push the locking latch located laterally on the spool housing (see picture, action 1). Then turn the cover clockwise by about 1.5 cm (see picture, action 2). This will unlock the cover and it can be removed. Now remove the Tap'n go button and then the used-up spool from the spool housing. Pass the two line ends of the new spool through the eyelets in the spool housing as shown in the picture. The line ends still stay clamped in the two transverse clamps of the spool.



Put the line spool in the spool housing. Please turn the spool such that the clamped line ends are located directly in front of the eyelets of the spool housing. Make sure that the spring is properly seated under the spool. Now put the Tap'n go button back on the spool. Then place the cover onto the 4 guiding pins and lock it in place by turning it anti-clockwise by about 1.5cm. Now vigorously pull on both line ends at the same time. This will loosen them from the transport clamps of the spool. The cutting head is now ready for operation.

You may also coil up the line yourself. If you do so, use the required line with a diameter of 2.5 mm only.



Use 2 separate lines with a length of about 2.1m each. To fix the line ends the spool has 2 eyelets. Put the end of each thread into an eyelet. Put the line into the eyelet in the direction of the arrow as shown on the bottom side of the spool. Put each line end in by about 2cm. Now grab both lines with one hand and concurrently coil them up in the direction of the arrow.

Finally, fix the line ends by putting each in one of the transport clamps as shown in the picture. The spool can now be installed. Proceed as described above to install the spool.



NOTE:

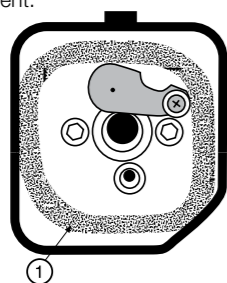
both nylon cords need to be wound in the same direction.

## AFTER 25 HOURS USE

### AIR CLEANER

Check the filter element and clean it in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one.

- 1) Air Cleaner element.



A clogged air filter will increase fuel consumption and cut down the engine power.



### IMPORTANT!

If you operate the brushcutter without the air filter or with a deformed filter element it will quickly ruin the engine.

### FUEL FILTER

Take the filter out of the fuel tank using a small wire hook. Disconnect the filter assembly from the fuel pipe and unhook the retainer to disassemble it. Clean the components with petrol.

A clogged fuel filter will reduce the power of the engine.

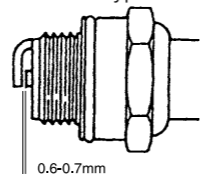
## SPARK PLUG



### IMPORTANT!

Remove and inspect the spark plug and clean the electrodes as necessary with wire brush.

The spark gap should be adjusted to 0.6~0.7mm. If a new spark plug is fitted it must be the same type as the original one.

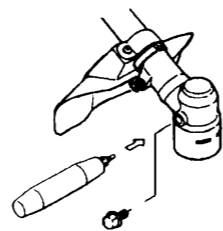


### COOLING AIR INTAKE VENT

- Check the cooling air intake vent and the area around the cylinder cooling fins, and remove any waste which has attached itself to the brushcutter.
- Failing to keep the air path clear could cause the muffler to become overheated, and this in turn could cause the brushcutter to catch on fire.

### GEAR CASE

- Remove the screw from the side of the gearbox.
- Remove the cutter and the inner flange to allow old grease to exit.
- Using a grease gun, supply multi-purpose grease after every 25 hours of use.



## AFTER 100 HOURS USE

### MUFFLER

1. Remove the muffler, insert a screwdriver into the vent, and scrape away any carbon buildup. Scrape away any carbon build-up on the muffler exhaust vent at the same time.
2. Tighten all screws, bolts, and fittings.
3. Undo the four socket screws holding the engine to the housing at the top of the main tube and check to see if any oil or grease has worked its way in between the clutch lining and drum. If it has, wipe it away using oil-free, lead-free petrol.



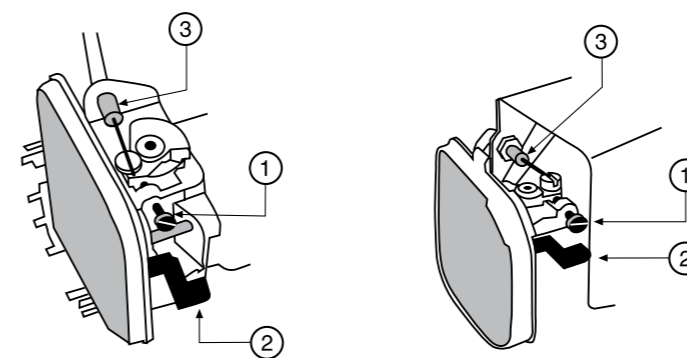
### IMPORTANT!

#### ADJUSTING THE CARBURETTOR

A wrong adjustment may cause damage to your unit. If the engine does not run well after adjusting the carburettor, please contact your service agent.

**Adjustments & service are not covered by warranty.**  
**IDLE ADJUSTMENT SCREW**

The horizontal screw (1) contacting the side of the butterfly lever arm on top of the carburettor adjusts the idling speed. If you turn right (clockwise), idle speed increases, and left (counterclockwise) it decreases. Adjust the speed if the blade continues to rotate when the engine is idling, or if the engine stops when you release the throttle lever.



- 1) Idle adjustment screw
- 2) Choke lever
- 3) Throttle cable

### MAINTENANCE BEFORE STORAGE

1. Clean the machine down thoroughly and inspect for any wear or damage. If you find any, have it corrected so the machine will be ready for use next time.
2. Empty the fuel from the tank. If the engine will start, run it until it stops from lack of fuel.
3. Remove the spark plug and put in 1~2 drops of 2-cycle oil in the engine. Pull the starter rope 2~3 times and then replace the spark plug.
4. Apply anti-rust oil to the metal parts such as the throttle wire, put the cover on the blade, and store it indoors, avoiding dampness.

## Specifications

	Line Trimmer BCL330	Line Trimmer BCL440	Brush Cutter BCL440
Engine displacement	32.5cm <sup>3</sup>	43cm <sup>3</sup>	43cm <sup>3</sup>
Power	0.9kw	1.3kw	1.3kw
Idling Speed	3000r/min±200	3000r/min±200	3000r/min±200
Cutting Width - Blade	255mm	255mm	255mm
Cutting Width - Line Trimmer	440mm	440mm	440mm
Fuel Tank Volume	1L	1.2L	1.2L
Shaft Tube Length	1500mm	1500mm	1500mm
Shaft Tube Diameter	26mm	26mm	26mm
Handle	Loop	"J" type	Bull Bar

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