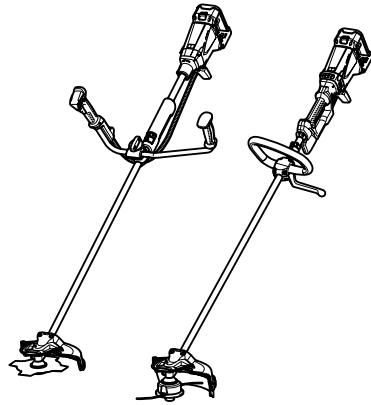


INSTRUCTION MANUAL



Cordless Brushcutter / Cordless String Trimmer

BBC231U
BBC300L
BC231UD
BC300LD



010751

IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS












Model		BBC231U / BC231UD	BBC300L / BC300LD
Type of handle		Bike handle	Loop handle
No load speed	Nylon cutting head	High	0 - 6,600 min ⁻¹
		Low	0 - 4,900 min ⁻¹
	4 teeth blade	High	0 - 7,300 min ⁻¹
		Low	0 - 5,300 min ⁻¹
	3 teeth blade	High	0 - 7,700 min ⁻¹
		Low	0 - 5,600 min ⁻¹
Overall length	With blade	1,880 mm	-
	With nylon cutting head	1,850 mm	
Cutting blade diameter		230 mm	-
Cutting diameter with nylon cutting head		300 mm	300 mm
Net weight	Nylon cutting head	6.9 kg	5.9 kg
	4 teeth blade	7.1 kg	-
	3 teeth blade	7.0 kg	-
Rated voltage		D.C. 36 V	
Standard battery cartridge(s) ⚠ Warning: Use only the battery cartridge(s) described.		BL3626 / BL3622A	

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.
- Weight, with battery cartridge, according to EPTA-Procedure 01/2003

END008-2

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.

-  • Take particular care and attention.
-  • Read instruction manual.
-  • Danger; be aware of thrown objects.
-  • The distance between the tool and bystanders must be at least 15 m.
-  • Keep bystanders away.
-  • Keep distance at least 15 m.
-  • Avoid kickback.
-  • Wear a helmet, goggles and ear protection.
-  • Wear protective gloves.
-  • Wear sturdy boots with nonslip soles. Steeltoed safety boots are recommended.
-  • Do not expose to moisture.



- Top permissible tool speed.

- Only for EU countries
Do not dispose of electric equipment or battery pack together with household waste material!
In observance of European Directive 2002/96/EC on waste electric and electronic equipment, 2006/66/EC on batteries and accumulators and waste batteries and accumulators and their implementation in accordance with national laws, electric equipment and battery pack that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

GEB068-2

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

General instructions

1. Do not allow persons unfamiliar with the brushcutter/string trimmer or these instructions to operate the tool. Brushcutter and String trimmers are dangerous in the hands of untrained users.
2. Be sure that anyone who is to operate the brushcutter/string trimmer has first read the instruction manual.
3. Never allow people unfamiliar with these instructions, people (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge to use the tool. Local regulations can restrict the age of the operator.
4. Use the tool with the utmost care and attention.
5. Operate the tool only if you are in good physical condition. Perform all work calmly and carefully. Use common sense and keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
6. Never operate the tool when tired, feeling ill or under the influence of alcohol or drugs.
7. The tool should be switched off immediately if it shows any signs of abnormal operation.
8. Disconnect the battery from the tool before making any adjustments, changing accessories or storing. Such preventive safety measures reduce the risk of starting the tool accidentally.
9. Don't force the tool. it will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
10. Don't overreach. Keep proper footing and balance at all times.

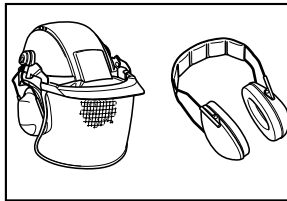
Intended use of the tool

1. Use right tool. The cordless brushcutter/string trimmer is only intended for cutting grass, weeds, bushes and undergrowth. It should not be used for any other purpose such as edging or hedge cutting as this may cause injury.

Personal protective equipment

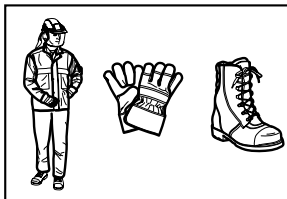
1. Dress Properly. The clothing worn should be functional and appropriate, i.e. it should be tight-fitting but not cause hindrance. Do not wear either jewelry or clothing which could become entangled with bushes or shrubs. Wear protective hair covering to contain long hair.
2. In order to avoid either head, eye, hand or foot injuries as well as to protect your hearing the following protective equipment and protective clothing must be used during operation of the

equipment.



010820

3. Always wear a helmet where there is a risk of falling objects. The protective helmet is to be checked at regular intervals for damage and is to be replaced at least every five years. Use only approved protective helmets.
4. The visor of the helmet (or alternatively goggles) protects the face from flying debris and stones. During operation of the tool always wear goggles, or a visor to prevent eye injuries.
5. Wear adequate noise protection equipment to avoid hearing impairment (ear muffs , ear plugs etc.).



010821

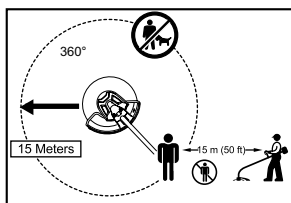
6. Work overalls protect against flying stones and debris. It is strongly recommended that the user wears work overalls.
7. Special gloves made of thick leather are part of the prescribed equipment and must always be worn during operation of the tool.
8. When using the tool, always wear sturdy shoes with a nonslip sole. This protects against injuries and ensures a good footing.

Electrical and battery safety

1. Avoid dangerous environment. Don't use the tool in damp or wet locations or expose it to rain. Water entering the tool will increase the risk of electric shock.
2. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
3. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

4. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
5. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery may cause irritation or burns.
6. Do not dispose of the battery(ies) in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
7. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.

Starting up the tool



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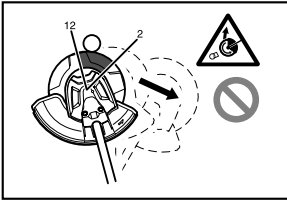
1. Make sure that there are no children or other people within a working range of 15 meters (50 ft), also pay attention to any animals in the working vicinity. Otherwise stop using the tool.
2. Before use always check that the tool is safe for operation. Check the security of the cutting tool and the guard and the switch trigger/lever for easy and proper action. Check for clean and dry handles and test the on/off function of the switch.
3. Check damaged parts before further use of the tool. A guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by our authorized service center unless indicated elsewhere in this manual.
4. Switch on the motor only when hands and feet are away from the cutting tool.
5. Before starting make sure that the cutting tool has no contact with hard objects such as branches, stones etc. as the cutting tool will revolve when starting.

Method of operation

1. Only use the tool in good light and visibility. During the winter season beware of slippery or wet areas, ice and snow (risk of slipping). Always ensure a safe footing.
2. Take care against injury to feet and hands from the cutting tool.
3. Never cut above waist height.
4. Never stand on a ladder and run the tool.
5. Never climb up into trees to perform cutting operation with the tool.
6. Never work on unstable surfaces.
7. Remove sand, stones, nails etc. found within the working range. Foreign particles may damage the cutting tool and can cause dangerous kick-backs.
8. Should the cutting tool hit stones or other hard objects, immediately switch off the motor and inspect the cutting tool.
9. Inspect the cutting blade at short regular intervals for damage (detection of hairline cracks by means of tapping-noise test).
10. Before commencing cutting, the cutting tool must have reached full working speed.
11. Operate the tool only with the shoulder harness attached which is to be suitably adjusted before putting the tool into operation. It is essential to adjust the shoulder harness according to the user size to prevent fatigue occurring during use.
12. During operation always hold the tool with both hands. Never hold the tool with one hand during use. Always ensure a safe footing.
13. The cutting tool has to be equipped with the guard. Never run the tool with damaged guards or without guards in place!
14. All protective equipment such as guards and the shoulder harness supplied with the tool must be used during operation.
15. Never hit weeds or similar materials with the cutting tool to cut them away.
16. Except in case of emergency, never drop or cast the tool to the ground or this may severely damage the tool.
17. Never drag the tool on the ground when moving from place to place, the tool may become damaged if moved in this manner.
18. Always remove the battery cartridge from the tool:
 - whenever leaving the tool unattended;
 - before clearing a blockage;
 - before checking, cleaning or working on the tool;
 - whenever the tool starts vibrating abnormally.
19. Always ensure that the ventilation openings are kept clear of debris.

Kickback (blade thrust)

1. When operating the tool, uncontrolled kickback (blade thrust) may occur.



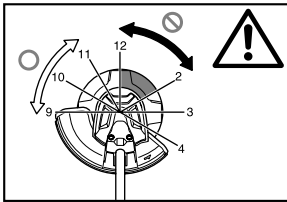
010810

2. This is particularly the case when attempting to cut within a blade segment between 12 and 2 o'clock.
3. Never apply the tool within a segment between 12 and 2 o'clock.
4. Never apply this segment of the cutter blade to solids, such as bushes and trees, etc., having a diameter in excess of 3 cm or the cutter blade will be deflected at great force with the risk of injuries.

Kickback prevention

To avoid kickbacks, observe the following:

1. Operation within a blade segment between 12 and 2 o'clock presents positive hazards, especially when using metal cutting tools.



010811

2. Cutting operations within a blade segment between 11 and 12 o'clock, and between 2 and 5 o'clock, must only be performed by trained and experienced operators, and then only at their own risk.
3. Easy cutting with almost no kickback is possible within a blade segment between 9 and 11 o'clock.

Cutting Tools

1. Employ only the correct cutting tool for the job in hand.
2. To cut thick materials, such as weed, high grass, bushes, shrubs, underwood, thicket etc. (max. 2 cm dia. thickness), perform the cutting work by swinging the tool evenly in half-circles from right to left (similar to using a scythe).

Maintenance instructions

1. The condition of the cutting tool, protective devices and shoulder harness must be checked before commencing work.
2. Particular attention is to be paid to the cutting blades which must be correctly sharpened.
3. Turn off the motor and remove the battery cartridge before carrying out maintenance, replacing the cutting tool and cleaning the tool.
4. Check for loose fasteners and damaged parts such as cracks in the cutting tool.
5. Follow instructions for lubricating the tool.
6. When not in use store the equipment in a dry location that is locked up or out of children's reach.
7. Use only the manufacturer's recommended replacement parts and accessories.
8. Inspect and maintain the tool regularly, especially before/after use. Have the tool repaired only by our authorized service center.
9. Keep handles dry, clean and free from oil and grease.

SAVE THESE INSTRUCTIONS.

⚠WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. **MISUSE** or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

ENC007-6

IMPORTANT SAFETY INSTRUCTIONS

FOR BATTERY CARTRIDGE

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
 - (1) Do not touch the terminals with any conductive material.

-
- (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
 - (3) **Do not expose battery cartridge to water or rain.**

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

6. **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 ° C (122 ° F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Be careful not to drop or strike battery.**
9. **Do not use a damaged battery.**

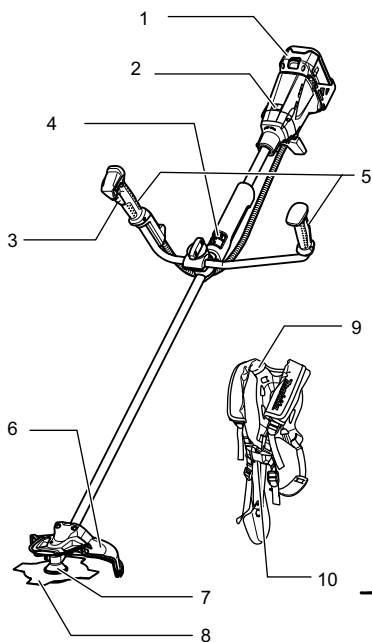
SAVE THESE INSTRUCTIONS.

Tips for maintaining maximum battery life

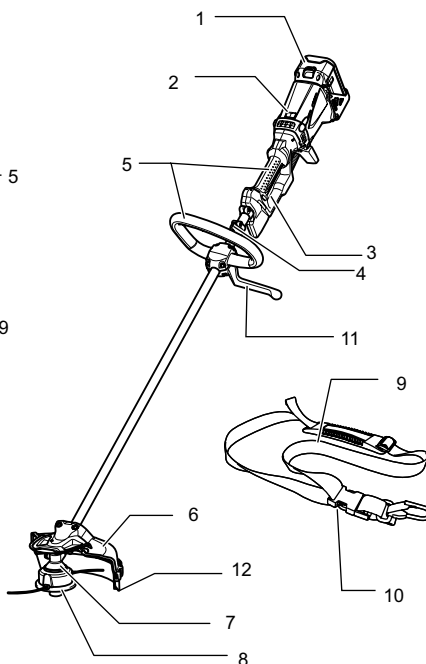
1. **Charge the battery cartridge before completely discharged.**
Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. **Never recharge a fully charged battery cartridge.**
Overcharging shortens the battery service life.
3. **Charge the battery cartridge with room temperature at 10 ° C - 40 ° C (50 ° F - 104 ° F).**
Let a hot battery cartridge cool down before charging it.

PARTS DESCRIPTION

BBC231U / BC231UD



BBC300L / BC300LD



1	Battery cartridge	7	Gear case
2	Indication lamp	8	Cutting tool
3	Switch trigger	9	Shoulder harness
4	Hanger (suspension point)	10	Buckle
5	Grip	11	Barrier
6	Guard	12	Guard extension

FUNCTIONAL DESCRIPTION

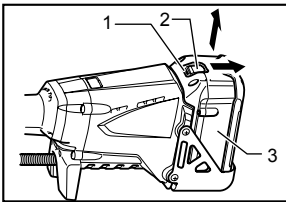
⚠ WARNING:

- **Always be sure that the tool is switched off and battery cartridge is removed before adjusting or checking the functions on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

Installing or removing battery cartridge

⚠ CAUTION:

- **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.
- Always switch off the tool before insertion or removal of the battery cartridge.



1. Red indicator
2. Slide button
3. Battery cartridge

010752

To remove the battery cartridge, withdraw it from the tool while sliding the button on the front of the cartridge. To insert the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely. Insert it fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

NOTE:

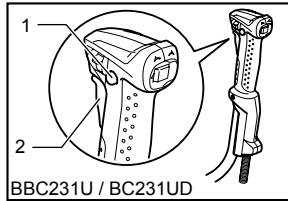
- Do not use force when inserting the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

Power switch action

⚠ WARNING:

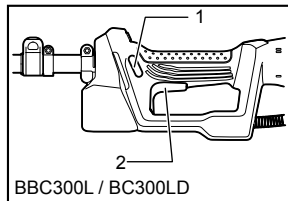
- **Before inserting the battery cartridge in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released. Do not pull the switch trigger hard without pressing in the lock-off**

button. This can cause switch breakage. Operating a tool with a switch that does not actuate properly can lead to loss of control and serious personal injury.



011720

1. Lock-off button
2. Switch trigger



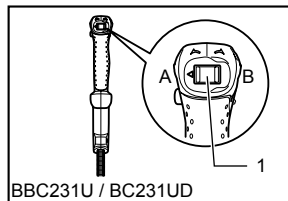
011723

1. Lock-off button
2. Switch trigger

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.

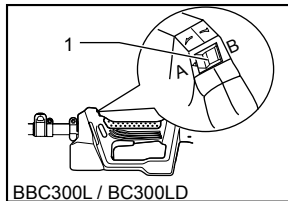
To start the tool, press in the lock-off button and pull the switch trigger. The tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

Reversing Switch for Debris Removal



011722

1. Reversing switch
2. A position depressed for normal operation
3. B position depressed for weed and debris removal



011726

1. Reversing switch
2. A position depressed for normal operation
3. B position depressed for weed and debris removal

This tool has a reversing switch which is only provided to change the direction of rotation so that it can be used to remove weeds and debris entangled in the tool. To operated the tool normally the "A" side of the switch

should be depressed.

To remove weeds and debris that are jammed in the rotating head the tool can be reversed by depressing the "B" side of the switch. In the reverse position the tool will only operate for a short period of time and automatically shut off.

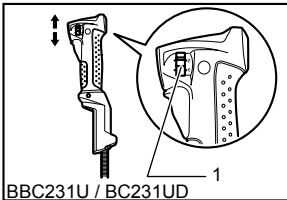
⚠ WARNING:

- **Always be sure that the tool is switched off and battery cartridge is removed before removing weeds or debris entangled in the tool that could not be removed when operated in the reverse mode.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

NOTICE:

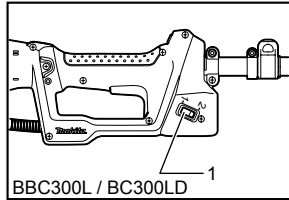
- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage it.

Speed change



011721

1. Speed change switch lever



011724

Two speed ranges can be preselected with the speed change switch.

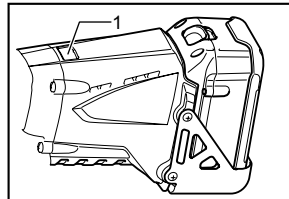
Flipping the speed change switch lever to the "1" position will set the tool to the low speed range and the "2" position will set the tool to the high speed range.

Battery/motor protection system

The battery cartridge and tool are provided with protection devices that will automatically reduce or cut off power to the tool when overload situations develop that may cause damage to the tool or battery cartridge.



If the tool becomes overloaded but not locked up a protector is provided to reduce the revolutions to protect the motor. In this case the two indicator lamps described in the table below do not light or blink.

All other protection functions can be identified by the indicator lights described in the table below.



010765

1. Indication lamp

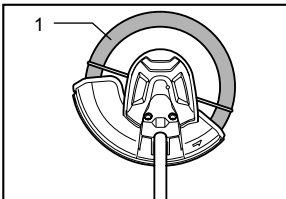
		Status	Action to be taken
-	Blinking	Battery power has been nearly used up.	Replace the battery with fully charged one.
-	Lighting On	Battery protector is shutting off the power - battery power has been used up.	Replace the battery with fully charged one.
Blinking	-	Overload protector is shutting off the power - the motor was locked.	Release the switch trigger and remove the cause of the motor lock or overload. If the cutting tool is locked by entangling weeds or the like, always remove the battery cartridge before clearing it.
Lighting On	-	Overheat protector is shutting off the power - overheating.	Rest the equipment for a while.
Blinking	Blinking	Electric or electronic malfunction	Ask your local authorized service center for repairs.

010823

Nylon cutting head (optional accessory for a product that comes with a cutter blade)

NOTE:

- Do not attempt to bump feed the head while the tool is operating at a high RPM. Bump feeding at a high RPM may cause damage to the nylon cutting head.
- The bump feed will not operate properly if the head is not rotating.



1. Most effective cutting area

010770

The nylon cutting head is a dual string trimmer head provided with a bump & feed mechanism.

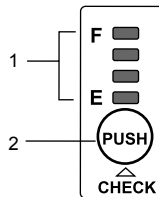
To cause the nylon cord to feed out, the cutting head should be bumped against the ground while rotating at a low RPM. As the nylon cord is feeding out it will automatically be cut to the proper length by the cutters on the guard extension.

NOTE:

If the nylon cord does not feed out while bumping the head, rewind/replace the nylon cord by following the procedures described under "Maintenance."

Battery remaining capacity indicator (only for models with Battery BL3622A)

Battery BL3622A is equipped with the battery remaining capacity indicator.



- Indicator lamps
- CHECK button

011715

Press the CHECK button to indicate the battery remaining capacity. The indicator lamps will then light for approx. three seconds.

Indicator lamps		Remaining capacity	
Lighted	Off		Blinking
E	■ ■ ■ ■ ■	F	70% to 100%
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	45% to 70%
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	20% to 45%
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	0% to 20%
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	Charge the battery.
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	The battery may have malfunctioned.
■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	

011713

- When only the lowermost indicator lamp (next to the "E") blinks, or when none of the indicator lamps light, the battery capacity has run out, so the tool does not operate. In these cases, charge the battery or replace the empty battery with a fully charged one.
- When two or more indicator lamps do not light even after charging is complete, the battery has reached the end of its service life.
- When the upper two and lower two indicator lamps light alternately, the battery may have malfunctioned. Contact your local Makita authorized service center.

NOTE:

- The indicated capacity may be lower than the actual level during use or immediately after using the tool.
- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

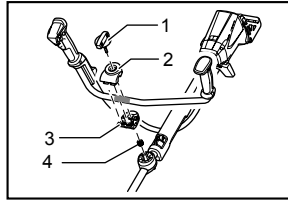
ASSEMBLY

⚠WARNING:

- Always be sure that the tool is switched off and battery cartridge is removed before carrying out any work on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.
- Never start the tool unless it is completely assembled.** Operation of the tool in a partially assembled state may result in serious personal injury from accidental start-up.

Installing the handle

For model BBC231U,BC231UD



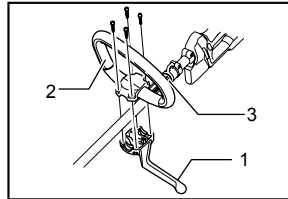
1. Knob
2. Handle clamp
3. Handle holder
4. Compression spring

011485

Loosen knob.

Place handle between handle clamp and handle holder. Adjust the handle to an angle that provides a comfortable working position and then secure by firmly hand-tightening knob.

For model BBC300L,BC300LD



1. Barrier
2. Grip
3. Spacer

011475

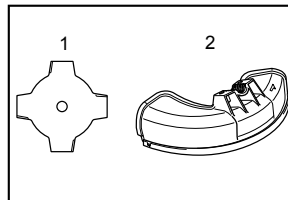
Fit the barrier and grip onto the shaft pipe with four screws. Make sure that the spacer on the shaft pipe is located between the grip/barrier assembly and the hanger.

Position the barrier on the left side of the tool. Then tighten four screws so that the grip/barrier assembly cannot move or rotate on the shaft pipe.

⚠WARNING:

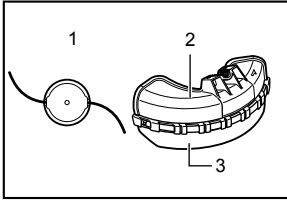
- Do not remove or shrink the spacer.** The spacer keeps a certain distance between both hands. Setting the grip/barrier assembly close to the other grip beyond the length of the spacer may cause loss of control and serious personal injury.

Installing the guard



1. Cutter blade
2. Guard

010755



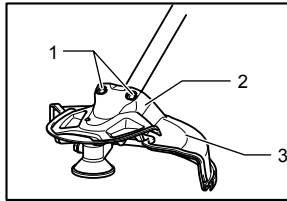
1. Nylon cutting head
2. Guard
3. Guard extension

010768

⚠WARNING:

- **Never use the tool without the guard illustrated in place.** Failure to do so can cause serious personal injury.

In use of the metal blade



1. Two bolts
2. Protector cover
3. Guard

010778

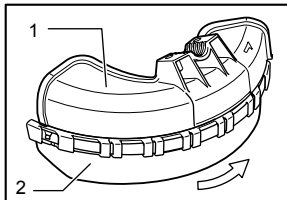
Fix the guard to the clamp with two bolts as shown. Tighten the right and left bolts evenly.

In use of the nylon cutting head

⚠CAUTION:

- **While installing the guard extension be careful not to contact the sharp nylon cord cutter provided on the guard extension.** Contact with the cutter could result in personal injury.

Fix the guard to the clamp with two bolts as shown. Tighten the right and left bolts evenly.



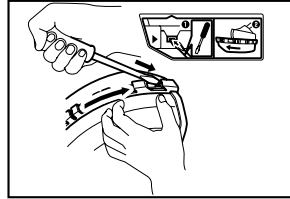
1. Guard
2. Guard extension

010777

Mount the guard extension by placing it on to the mounting track provided on the lower edge of the guard and sliding it into position until the guard extension clicks and locks into place. The extension guard is designed so that it will only mount onto the guard in one direction.

NOTE:

- Remove tape adhered to cutter, which cuts nylon cord, on guard extension at the first use.



010849

To remove the guard extension, use a flat-blade screwdriver and place it into the small notch provided on the locking nub. To unlock the guard extension press down on the locking nub while sliding the lower guard extension in the direction indicated in the figure. Once the guard extension starts to slide it is unlocked and can be removed by continuing to slide it off of the guard.

Installing the cutter blade

⚠WARNING:

- **The outside diameter of the cutter blade must be 230 mm.** Never use any blade exceeding 230 mm in outside diameter.

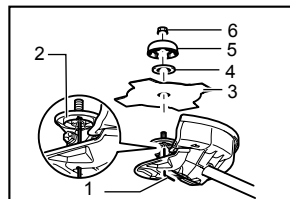
⚠CAUTION:

- The cutter blade must be well polished, free of cracks or breakage. Polish or replace the cutter blade every three hours of operation.
- Always wear gloves when handling the cutter blade.
- Always attach the blade cover when the tool is not in use or is being transported.
- The cutter blade-fastening nut (with spring washer) is a consumable part. If there appears any wear or deformation on the spring washer, replace the nut. Ask your local authorized service center to order it.

NOTICE:

- Be sure to use genuine Makita cutter blade.

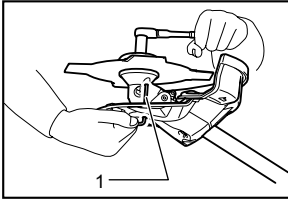
Turn the tool upside down so that you can replace the cutter blade easily.



1. Hex wrench
2. Receive washer
3. Cutter blade
4. Clamp washer
5. Cup
6. Hex nut

010756

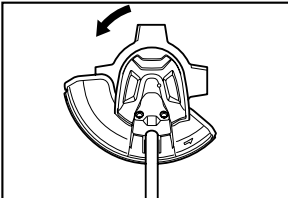
To dismount the cutter blade, insert the hex wrench through the hole on the protector cover and gear case. Rotate the receive washer until it is locked with the hex wrench. Loosen the hex nut (left-hand thread) with the socket wrench and remove the nut, cup, clamp washer and hex wrench.



1. Hex wrench

010757

Mount the cutter blade onto the shaft so that the guide of the receive washer fits in the arbor hole in the cutter blade. Install the clamp washer, cup, and secure the cutter blade with the hex nut with 13 to 23 Nm of tightening torque during holding the receive washer with hex wrench.



010758

Make sure that the blade is the left way up.

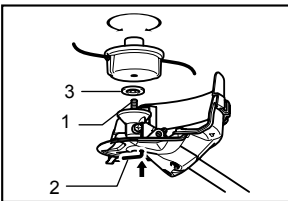
Installing nylon cutting head

⚠CAUTION:

- **Only use the nylon cutting head with the guard and guard extension in place.** Failure to do so can cause serious personal injury.

NOTICE:

- Be sure to use genuine Makita nylon cutting head. Turn the tool upside down so that you can replace the nylon cutting head easily.



1. Threaded spindle
2. Hex wrench
3. Receive washer

010769

Insert the hex wrench through the hole on the protector cover and the gear case and rotate the receive washer

until it is locked with the hex wrench. Mount the nylon cutting head onto the threaded spindle directly and tighten it by turning it counterclockwise. Remove the hex wrench.

To remove the nylon cutting head, turn the nylon cutting head clockwise while holding the receive washer with the hex wrench.

⚠CAUTION:

- **If during operation the nylon cutting head accidentally impacts a rock or hard object the trimmer should be stopped and inspected for any damage. If the nylon cutting head is damaged it should be replaced immediately.** Use of a damaged nylon cutting head could result in serious personal injury.

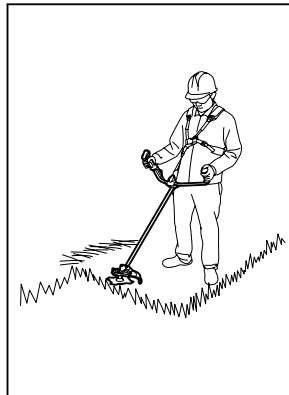
OPERATION

Correct handling of tool (BBC231U,BC231UD)

Correct posture

⚠WARNING:

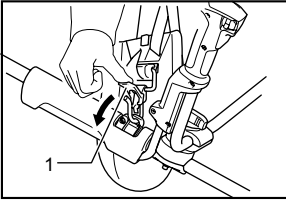
- **Always position the tool on your right-hand side so that the shaft of the left handle is always in front of your body.** Correct positioning of the tool allows for maximum control and will reduce the risk of serious personal injury caused by kickback.



010753

As shown in the figure fit the shoulder harness and hang the tool firmly on your right side so that the shaft of the left handle is always ahead of you.

Attachment of shoulder harness



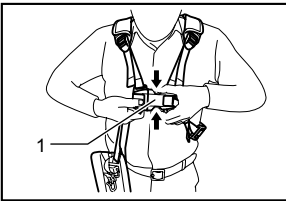
1. Lever

010760

Wear the shoulder harness on your back and buckle it up until a click is heard. Make sure that it cannot be taken off with pulling it off. Hang the tool as shown.

Adjust the strap length so that the cutter blade will be kept parallel with the ground at the level of 10 to 30 cm above the ground.

Detachment



1. Buckle

010759

The buckle is provided with a means of quick release which can be accomplished by simply squeezing the sides and the buckle.

⚠ WARNING:

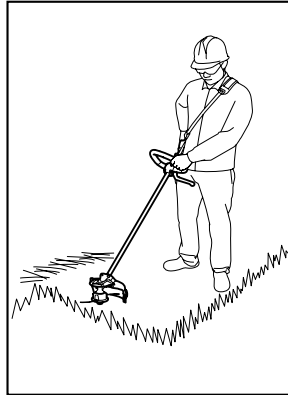
- **Be extremely careful to maintain control of the tool at this time. Do not allow the tool to be deflected toward you or anyone in the work vicinity.** Failure to do so could result in serious injury.

Correct handling of tool (BBC300L, BC300LD)

Correct posture

⚠ WARNING:

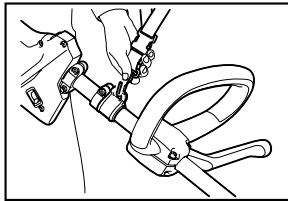
- **Always position the tool on your right-hand side so that the barrier is always in front of your body.** Correct positioning of the tool allows for maximum control and will reduce the risk of serious personal injury caused by kickback.



010767

As shown in the figure, put the shoulder harness on your left shoulder by putting your head and right arm through it and keep the tool on your right side while always keeping the barrier in front of your body.

Attachment of shoulder harness

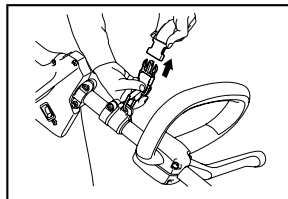


010816

After putting the shoulder harness on it can be attached to the tool by connecting the buckles provided on both the tool hook and the harness. Be sure that the buckles click and lock completely in place.

To properly adjust the strap, hang the tool as shown in the first figure above, so that the cutting tool will be kept parallel with the ground at the level of 10 to 30 cm above the ground.

Detachment



010817

The buckle is provided with a means of quick release which can be accomplished by simply squeezing the sides and the buckle.

⚠WARNING:

- **Be extremely careful to maintain control of the tool at all times. Do not allow the tool to be deflected toward you or anyone in the work vicinity.** Failure to keep control of the tool could result in serious injury to the bystander and the operator.

MAINTENANCE

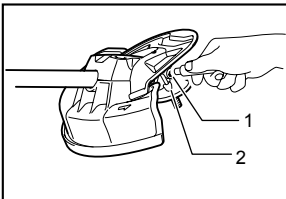
⚠WARNING:

- **Always be sure that the tool is switched off and battery cartridge is removed before attempting to perform inspection or maintenance on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

NOTICE:

Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Supply of grease to gear case



1. Grease hole
2. Gear case

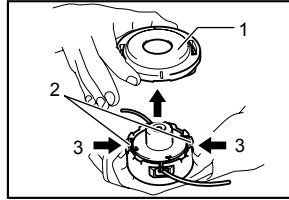
010812

Supply grease (Shell Alvania 2 or equivalent) to the gear case through the grease hole every 30 hours. (Genuine Makita grease may be purchased from your Makita dealer.)

Replacing the nylon cord

⚠WARNING:

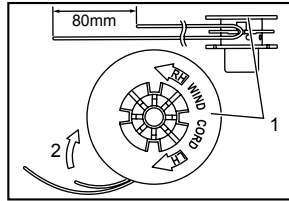
- **Always be sure that the tool is switched off and battery cartridge is removed before attempting to perform inspection or maintenance on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.
- **Make sure that the cover of the nylon cutting head is secured to the housing properly as described below.** Failure to properly secure the cover may cause the nylon cutting head to fly apart resulting in serious personal injury.



1. Cover
2. Latches
3. Press

010772

Press inward on the housing latches and lift upward to remove the cover. Discard any of the remaining nylon cord.

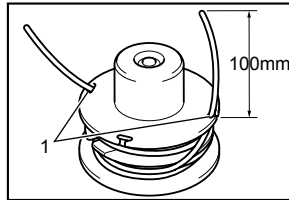


1. Spool
2. For left hand rotation

010992

Hook the middle of the new nylon cord to the notch located at the center of the spool between the 2 channels provided for the nylon cord. One side of the cord should be about 80mm longer than the other side.

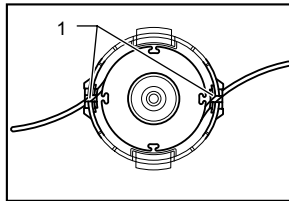
Wind both ends firmly around the spool in the direction marked on the head for left hand direction indicated by LH.



1. Notches

010993

Wind all but about 100 mm of the cords, leaving the ends temporarily hooked through a notch on the side of the spool.

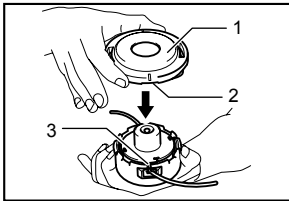


1. Eyelets

010994

Mount the spool in the housing so that the grooves and protrusions on the spool match up with those in the

housing. Keep the side with letters on the spool visible on the top. Now, unhook the ends of the cord from their temporary position and feed the cords through the eyelets to come out of the housing.



1. Cover
2. Protrusion (Not shown)
3. Slot of the eyelet

010776

Align the protrusion on the underside of the cover with the slots of the eyelets. Then push cover firmly onto the housing to secure it. Make sure the latches fully spread in the cover.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

TROUBLE SHOOTING

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the tool. Instead, ask Makita Authorized Service Centers, always using Makita replacement parts for repairs.

Malfunction status	Cause	Action
Motor does not run.	Battery cartridge is not installed.	Install the battery cartridge.
	Battery problem (under voltage)	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Motor stops running after a little use.	Rotation is in reverse.	Change the direction of rotation with the reversing switch.
	Battery's charge level is low.	Recharge the battery. If recharging is not effective, replace battery.
	Overheating.	Stop using of tool to allow it to cool down.
It does not reach maximum RPM.	Battery is installed improperly.	Install the battery cartridge as described in this manual.
	Battery power is dropping.	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Cutting tool does not rotate: stop the machine immediately!	Foreign object such as a branch is jammed between the guard and the nylon cutting head or cutter blade.	Remove the foreign object.
	Cutter blade fastening nut is loose.	Tighten the nut properly as described in this manual.
	The cutter blade is bended.	Replace the cutter blade.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Abnormal vibration: stop the machine immediately!	One of nylon cord has been broken and the head got unbalanced.	Bump the nylon cutting head against the ground while it is rotating to cause the cord to feed.
	The cutter blade is bended, cracked or worn.	Replace the cutter blade.
	Cutter blade fastening nut is loose. Cutter blade is fastened improperly.	Tighten the nut properly as described in this manual.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Cutting tool and motor cannot stop: Remove the battery immediately!	Electric or electronic malfunction.	Remove the battery and ask your local authorized service center for repair.

OPTIONAL ACCESSORIES

CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Cutter blade
- Nylon cutting head
- Pole hedge trimmer attachment (for model BBC300L,BC300LD)
- Pole saw attachment (for model BBC300L,BC300LD)
- Cultivator attachment (for model BBC300L,BC300LD)
- Makita genuine battery and charger

NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

Makita Corporation