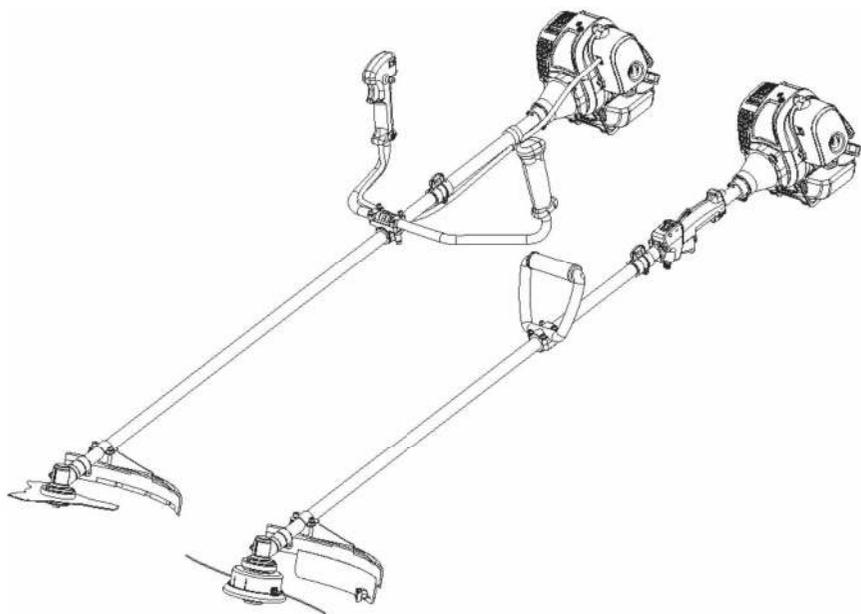


EN Operation Manual

GBC33 / GBC43



Thanks for purchasing GAMA GARDEN products. Before using the bush cutter/grass trimmer produced by our company, please read carefully the Operation Instruction for correct operation.

Please read the OI carefully before using the product.

The OI describes the installation, operation and maintenance of GAMA GARDEN bush cutter/ grass trimmer in detail, as well as important information concerning safety. Please keep the OI properly for your reference at any time.

The OI is an integral part of GAMA GARDEN bush cutter/ grass trimmer. Therefore, it should be included when transferring the machine.

Please pay special attention to contents with the following warning signs.

Warning! Death or major personal injury may be caused if you don't follow the instruction.

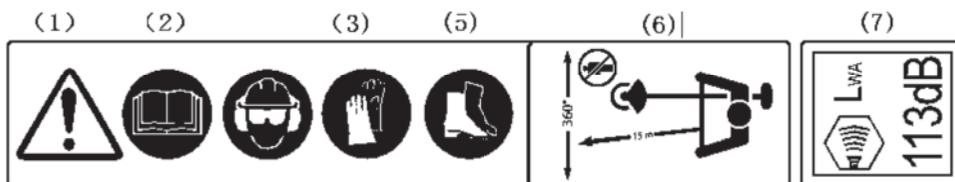
Attention! Personal injury may be caused if you don't follow the instruction.

For any problem concerning the machine, please call or write to us or contact local distributors.

Contents

1. Notices for Safe Operation
2. Warning Signs
3. Parts Name
4. Inspections before Operation
5. Using the Machine
6. Maintenance
7. Storage
8. Troubleshooting
9. Performance Parameter

■ Illustration



- (1) Warning / attention.
- (2) Please read the OI carefully before use the product.
- (3) Wear helmet, earmuff and eyeshade.
- (4) Wear well-knit gloves.
- (5) Wear stout protective boots that cannot easily slip.
- (6) Children, bystanders, assistants and animals should stay 15 meters away from the machine.
- (7) The noise should be lower than 113db.

Warning

Please don't transform the machine.

Arbitrary transformation and otherwise application beyond the operating instruction will not be covered by the warranty provided by the company.

1 Notices for Safe Operation

1. In order to operate correctly, users should carefully read and fully understand the OI, and follow all precautions and safeguard procedure and be familiar with the operation. Who failing to do this may operate incorrectly and thus endangers himself/herself and others.



2. The product is equipped with blade rotating in high-speed and therefore can be very dangerous in case of improper operation. Please avoid using the machine when feeling fatigue, physically uncomfortable or after taking medicines or drinking wine which may reduce the capability of judgment.



3. Please wear standard eyeshade (or face mask) and earmuff.



4. Please don't work in too loose clothes, barefoot, or wear accessories, sandals or shorts. Do not wearing any objects that can be entangled by branches or machine parts. Tie your hair up above your shoulders.

5. When transferring or lending the machine to others, attach the OI. People failing to understand the OI and children are not allowed to use the machine.

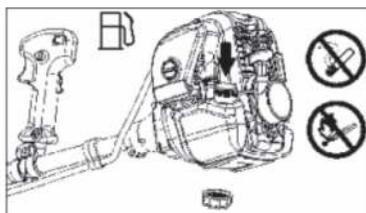
6. Carbon monoxide will be emitted and harm human body. Therefore avoid using the machine indoors and in greenhouses or tunnels with poor ventilation.



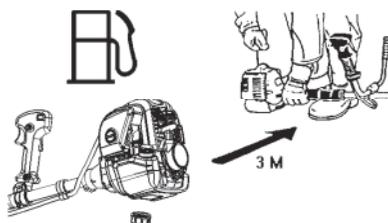
7. Before starting the engine, check for any loose parts or fuel leakage and be sure the sawing accessories have been properly installed and fixed.

8. Make sure the blade shield is fixed at correct position.

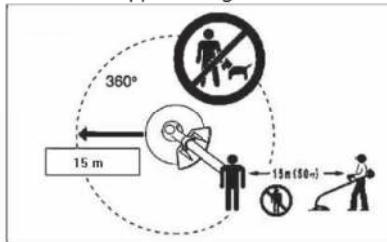
9. Fuels used for the machine is inflammable; therefore, the depository of the machine and fuel storage should get rid of any open fire or sparks. No smoking when filling fuel for the machine or blending fuel oil.



10. Shut and cool down the engine before fueling. All sprayed fuel oil on the machine should be wiped away. Move the engine 3 meters away from the fueling place before starting it.



11. Check the conditions in the working area in case of cutting any hidden stubs, stones, cans, broken glasses and other hard materials and causing accidents.
12. Observers and animals should be kept 15 meters away from the working area. Immediately shut the engine when any observers or animals are approaching



13. Operators should stand stably and keep balance. Otherwise he isn't allowed to use the machine.
14. Keep the sawing accessories lower than your waist.
15. Any parts of the operator's body cannot touch the working sawing accessories or heating surface.
16. Watch out for the rebound of the sawing blade (bounce-back).
When the working sawing blade touches hard materials in working area with poor condition, rebound will be produced for the machine and the operator, causing dangers. When rebound occurs, operators may lose control of the machine and be hurt seriously. Rebound is more frequent in working areas where the sawed objects cannot be seen clearly.
17. The engine should be shut before any check or maintenance. Remove the spark plug when necessary.
18. The sawing blade should be well protected with shields when transporting or storing the machine. Fix the machine for stability before storage or transport in case of any fuel oil leakages, equipment damages or personal injuries.
19. The sawing accessories or other parts of the machine should be the products supplied or recommended by GAMAGARDEN Company.
20. After shutting the engine, the machine cannot be put down until the sawing accessories have stopped completely.
21. For products equipped with clutch, be sure the sawing accessories stop working when the engine is operating at its idling.
22. The application of the product is limited to the specified scope in the OI.
23. Replace with a new one when the sawing blade is curved, warped, cracked, damaged or with other failures.
24. When the engine stops or the accelerator is released, the blade is still rotating for inertia, which may result in accidents if it is touched.
25. The engine should be shut and the blades stopped before clearing the objects blocked or tangled on the sawing accessories.
26. The blades must be sharp. Rough blades can easily cause sawing accessories block and generate rebound. Change and tighten the nuts in accordance with specification of the manufacturer.
27. The machine can only be used for sawing materials recommended by the manufacturer. Don't touch the blade with unpermitted materials like stones and metals and so on.
28. Protective boots should be worn when in operation. When working in areas with danger of possible fallen objects, you should also wear a helmet.

2 Warning Labels

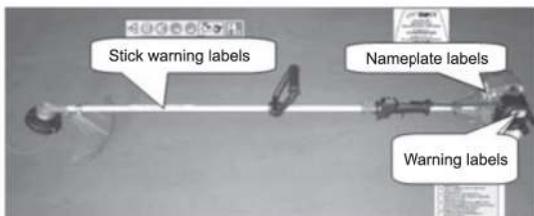


Figure 1.

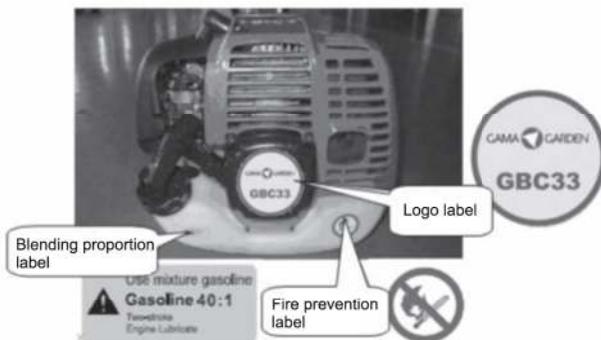


Figure 2.

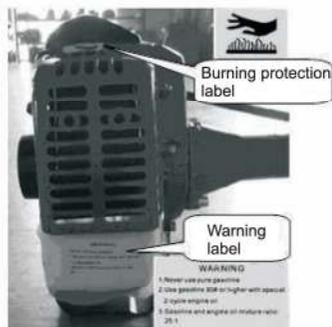
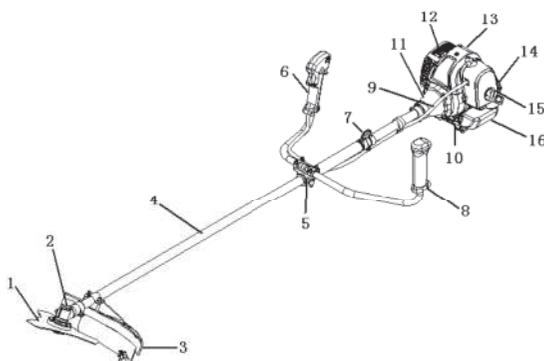


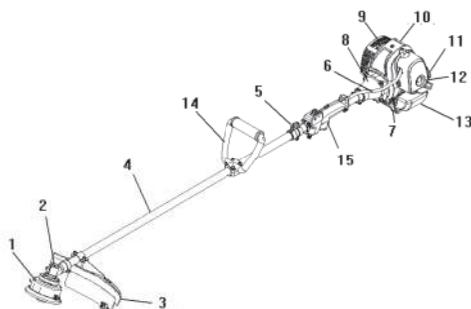
Figure 3.

3 Parts Name



- 1, blade 2, gear box 3, grass shield 4, drive aluminum stick 5, handlebar bracket 6, accelerator handlebar 7, ring 8, handlebar 9, accelerator cable 10, fuel tank platen 11, output bracket 12, silencer 13, shield 14, starter handlebar 15, air filter 16, fuel tank

GBC Series Bush Cutter

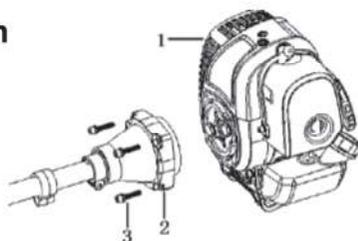


1, grass trimmer 2, gear box 3, grass shield 4, drive aluminum stick 5, ring 6, accelerator cable 7, fuel tank platen 8, output bracket 9, silencer 10, shield 11, starter handlebar 12, air filter 13, fuel tank 14, ring handlebar 15, big accelerator switch

4 Inspections before Operation

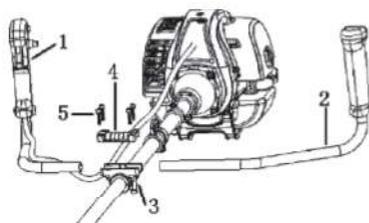
■ Engine

• Plug the connector 2 into the engine 1 in the position (as shown in the figure) and fix it with three of the four M6×30 bolts in the accessory bag. The tightening of the four bolts should be consistent to the greatest extent.



■ U-type handlebar

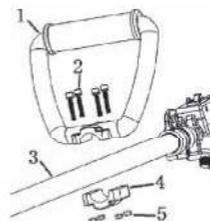
1. Unscrew the four M5×25 bolts 5 on the handlebar cover 4.
2. Plug the right handlebar 1 (handlebar of the accelerator) and left handlebar 2 (handlebar) into the handlebar bracket.
3. Adjust the two handlebars to a position for comfortable operation.
4. Put on the handlebar cover 4 and screw down the four M5 bolts 5 evenly.



■ D-type handlebar

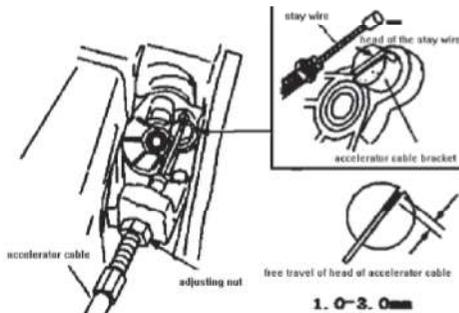
Install the handlebar 1 on the bar 3, plug the four M5 nuts into the handlebar attaching clamp 4 and screw down the attaching clamp with four M5×25 bolts 2.

Attention! Please don't place the handlebar too close to the accelerator handlebar. The distance between the two should be no shorter than 250 mm.



■ Connecting Accelerator Cable

1. Take off the air filter cover;
2. Pass the accelerator cable through the installation threaded hole on the carburetor;
3. Place the head of the accelerator cable to the cable slot;
4. Screw the adjusting screw rod on the accelerator into the screwed hole on the carburetor;
5. Pull the accelerator trigger on the accelerator handlebar and adjust the free travel of the accelerator cable to 1.0 – 3.0mm;
6. Screw down the adjusting nuts.



■ Inspecting Accelerator Cable

Check for the stable and smooth movement of accelerator trigger on the accelerator handlebar and if there is any damages to the accelerator cable. If the accelerator has evident damage or the accelerator trigger cannot move smoothly, please contact the distributor recognized by GAMA GARDEN Company. Free travel of the head of the accelerator cable: 1.0 ~ 3.0 mm

■ Adjusting Accelerator Cable

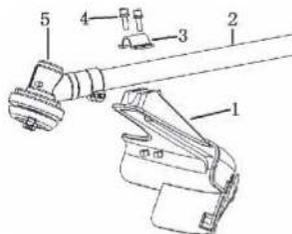
1. Loose the lock nut with a 10 mm open spanner and adjust the nuts as per requirements.
 - a) Unscrew the adjusting nut to enlarge free travel;
 - b) Screw down the adjusting nut to reduce free travel.
2. Screw down the adjusting nut after having adjusted free travel.

3. Connecting Flameout Cable

Connect the flameout cable between the flameout switch and the engine.

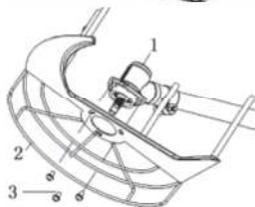
■ Installing Grass Shield

1. Plug the location boss on the grass shield 1 into the location hole in the drive aluminum stick 2;
2. Install the grass shield upper cover 3 and make the holes of the 2 screws in a line;
3. Install and screw down the 2 m6 screws 4.



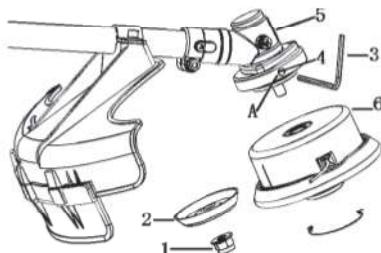
■ Installing Blade Cage

1. Plug the hexagonal stick into the flange of the blade through the fixed orifice on the side of gear box, unscrew the left nuts and take off lower protecting cover, blade paten and blade flange;
2. Install the blade cage on the gear box and fix it with three m5 bolts.



■ Installing Grass Trimmer

1. Plug the hexagonal stick 3 into the flange 4 of the blade through the fixed orifice A on the side of gear box 5, and unscrew the left nuts clockwise (facing the nut);
2. Take off low protective cover 2, install the grass trimmer 6 on the drive shaft and screw down it anti-clockwise (facing the grass trimmer).

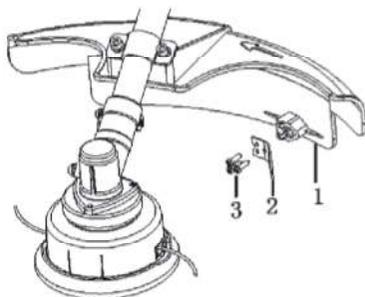


3. Disassemble it in a reverse way.

■ Installing Blades

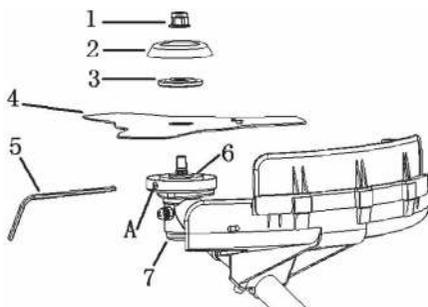
1. Open the attached work bag and take out the blade 2 and ST2.9 tapping screw 3;
2. Install the blade 2 on the alignment hole on the grass shield 1 and screw down with ST2.9 tapping screw 3.

Attention! The blade must be installed when working with the grass trimmer.



■ Installing Blades Of Bush Cutter

1. Plug the hexagonal stick 5 into the flange 6 of the blade through the fixed orifice A on the side of gear box 7;
2. Unscrew the left nut 1 clockwise (facing the nut) and take off low protective cover 2 and blade platen 3;
3. Place the blade 4 on the boss of the blade flange 6 on the drive shaft with the marks facing the fabricator.
- 4 Place the blade platen 3 in the spline of the drive shaft with the recessed terminus facing the blade 4;
- 5 Install the low protective cover 2 and left nut 1 and screw down anti-clockwise (facing the nut);
- 6 Disassemble it in a reverse way.



■ Checking the fuel oil



1. Gasoline is inflammable. No smoking or playing with objects with flames or sparks near the fuel oil.
2. Clear out the scattered objects around before starting the engine.
3. Before fueling, be sure the engine has been stopped and cooled down.
4. No smoke and fire in the place of fueling and storing fuel oil.

The fuel oil for gasoline bush cutter and grass trimmer is the blended oil of 90# and above unleaded gasoline and two-stroke special engine oil.

Attention!

Pour gasoline and engine oil into a container in accordance with the following proportion, shake the container and blend the oil.



■ **Blending proportion**

1. If FC grade two-stroke special engine oil is used, the proportion should be 40:1 (gasoline 4L, engine oil 100ml)
2. If FB grade two-stroke special engine oil is used, the proportion should be (gasoline 4L, engine oil 160ml)
3. The recommend proportion is 20:1 for the first 20 hours' us (gasoline 4L, engine oil 200ml)

Attention !

1. No four-stroke engine oil;
2. No fuels (gasoline) without being blended with engine oil;
3. No fuels with water in it;

Blended fuels out of use for more than one month may interrupt the work of the carburetor or result in poor performance of the engine.

5 Using the Machine

■ **Safety Inspection**

1. Before starting the engine, please check carefully for any gasoline around the machine or any leaked engine oil and wipe it clean.
2. Clear away the obstacles that may damages the machine.
3. Check for any loose fasteners and screw it down.

■ **Inspecting Sawing Parts**

1. Carefully check the sawing parts for any damage and replace the worn, curved, cracked, tipping or damaged sawing parts.
2. The sawing parts should be installed properly and fixed.
3. The metal blades, if used, must be sharp. Rough blades can be easily wrapped and the sawing capability can be reduced.
4. Carefully check the protective parts of the sawing parts. A proper installation can achieve best protection effect.

■ **Maintenance inspection**

1. Check the air filter. A dirty filter will block the air through the carburetor and reduce the performance of the engine.
2. Check the free travel of accelerator cable. Proper adjustment of accelerator cable can make the accelerator operate in stable and smooth way.
3. Check the fuel level in the fuel tank. Filled fuel tank can eliminate or reduce the situation of interrupted operation due to refueling.

■ **Starting The Engine**



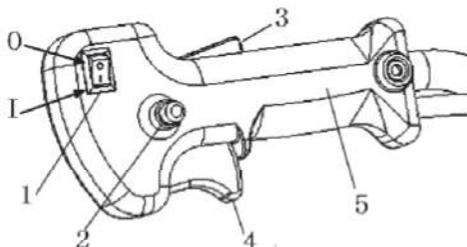
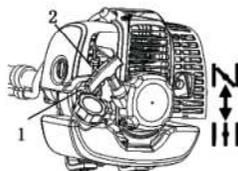
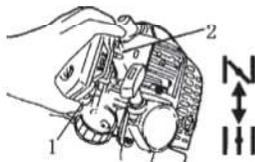
After starting the engine, the grass trimmer or blades may spin.

1. For cold start, switch the handle bar of the choke valve 2 to **N** position; and for warm start or start-up in high temperature, the position should be **I**.

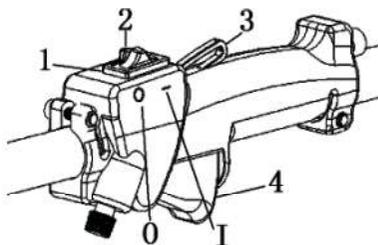
2. For cold start or restart after refueling the machine, you should repeatedly press the oil vacuole 1 until there are backflow of fuel oil in the transparent pipeline.

For warm restart, you don't need to press the oil vacuole 1.

3. Press down the accelerator trigger lock 3, slowly turn the accelerator trigger 4 to the partway and then press down the start button of accelerator 2 and place the accelerator to the starting position.



U type handlebar



D type handlebar

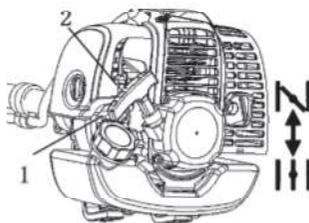
4. Turn the flameout switch 1 to the starting "1" position.

5. Place the machine on flat, hard and clean floor and be sure there are no objects around the grass trimmer (blade).

6. Tightly grasp the stick to hold down the machine with the left hand and pull the starter handlebar lightly till the starter and starter plate touches with the right hand, and then pull powerfully to start the engine.

7. After starting the engine, gradually pull the choke valve handlebar to the **I** position. After cold start, the engine should be kept for preheating for several minutes, lightly press the accelerator trigger and release to make the accelerator starter button return when the idling is stable.

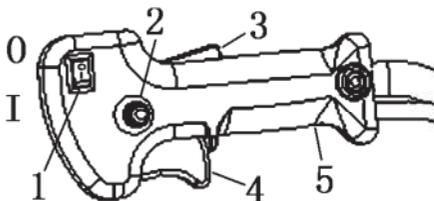
8. When the machine is at its idling, the grass trimmer or blade cannot spin. If the spin doesn't stop, please shutdown the machine immediately. Check if the idling speed is too high, the adjustment of accelerator cable is correct, the accelerator trigger is blocked and other parts have been assembled in position.



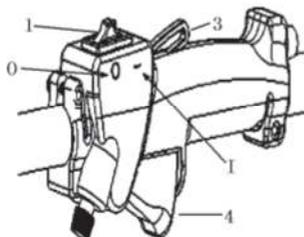
■ Shutdown The Engine

1. Completely loose the accelerator trigger;

When the spinning speed of the engine is reduced, turn the flameout switch to "o" position.



U type handlebar



D type handlebar

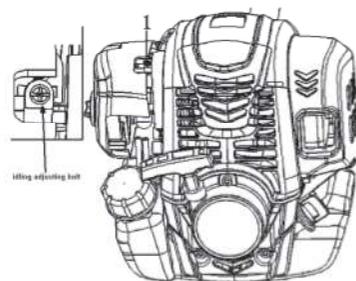


Even when the engine has stopped, the grass trimmer or blade will spin due to inertia and may result in dangers!

■ Adjusting Idling

1. Normally, the idling of the engine has been adjusted before delivery, which is $3,000 \pm 100$ R/M.

2. During operation, when the engine is spinning at a too high or too low speed, you can use a plus driver adjust the idling adjusting screw 1 (as shown in the figure).



Attention! Idling adjusting can only be conducted after the machine has been heated!

3. Screw the idling adjusting screw clockwise can accelerate the spinning of the engine while in the opposite direction the speed can be reduced.



Carburetor has been adjusted before delivery. Please contact the maintenance service site authorized by GAMA GARDEN Company for readjustment!

■ Sawing

● Wearing Straps



• Start the engine and keep it at idling. Wear straps as the following picture shows and buckle the pothook of the strap with the ring of the bush cutter (grass trimmer).



• Carry the machine to your right with the strap. Adjust the length of the strap to make the grass trimmer parallel to the ground.



- Select proper recommended sawing accessories in accordance with the objects. Other sawing accessories unauthorized by GAMA GARDEN Company cannot be used.



1. Eyeshades (like goggles) must be worn. Don't lean over the spinning grass trimmer, because stones or other fragments may be thrown into your eyes or face and cause serious personal injury.
2. Shields must be well installed during work.

● Using The Grass Trimmer

• Trimming Grassland and Weeds

Attention! For a better sawing effect, the bush cutter should be operated at its normal speed but not in hastiness.

1. Tightly hold the bush cutter, keep a space between the grass trimmer and the ground, and lean for about 20° to the sawing direction.
2. Properly enlarge the accelerator when sawing.
3. In case of throwing stone fragments, please saw from left to right.
4. When sawing in grassy areas, you can slower the sawing speed. The speed of sawing is depending on the condition of the sawing objects. Faster speed for more luxuriant grass.
5. Don't overwhelmingly turn the machine in case of losing balance or losing control of the machine.
6. Don't load all work on your hands and arms but try using your hip to control the movement of the machine.
7. Watch out for wires, weeds and other longer withered grass twisted on the shaft of the grass trimmer, for they may contribute to the stall of grass trimmer and clutch slippery, which if happens can frequently damage the clutch equipments.

Adjusting the Length of Nylon Cord

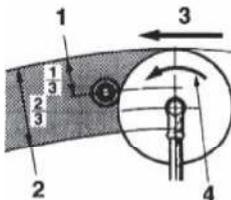
1. Both bush cutter and grass trimmer are equipped with a semi-automated nylon cord box with which the operator can adjust the length of nylon cord without shutting down the engine. When the length is shorter, you can hit properly the grass trimmer to the ground during high-speed operation of the engine and nylon cord can be released automatically.
2. 1 inch (25.4mm) of nylon cord will be releases for each hit.

3. Using Metal Blade

1. Turning the machine from right to left to trim grasses.
2. For general weeds, the blade can be cut into with 1/2 of its diameter but 1/3 for harder grasses like bristlegresses.
3. Adjust the rotation speed of the engine at any time as per the resistance of the grasses. For tender grasses, a medium speed is proper while the speed can be higher for thick buckwheat or grasses with vine.

3. For branches and trees

- 1) For grasses and weeds
- 2) Direction of sawing
- 3) Direction of rotation



Attention! To extend the service life of the blade, you can turn over the blade for use and sharpen it after the two sides have become rough.

6 Maintaining



1. Before cleaning, checking or repairing the machine, make sure the engine has been completely stopped and been cooled down.
2. Take off the spark plug cover in case of accidental start-up of the engine. Wear protective gloves all the time!

■ Daily Inspection and Maintenance

1. Before operation, check for any loose or absent screws on the bush cutter, and pay special attention to the tightness of the blade or nylon grass trimmer.
2. Before operation, check if the air inlet or cylinder cooling fin has been blocked. Clean as per the specific conditions.
3. Carry out daily task after operation: clean the exterior of the bush cutter (grass trimmer) and check if there is any damage.
 - a) Clean the air filter. The air filter should be cleaned several times a day if it is operated in dusty environment.
 - b) Check if there is any damage to the blade or nylon grass trimmer and make sure they are fixed.
 - c) Check if there is any great difference between the velocities of idling and clutch engaging to make sure the blade is still when the engine is at idling (the idling can be reduced if needed). If the blade still operates during idling, please consult the nearby service agent authorized by GAMA GARDEN.
4. Check if the flameout switch, accelerator self-locking trigger, accelerator trigger and accelerator starting button are ready for normal use.

■ Air Filter

A dirty air filter will affect the air inlet. In case of breakdown carburetor, the air filter should be cleaned regularly. And the cleaning times should be increased when the machine is working under dirty environment.

Warning! Watch out for fires when washing the air filter element with gasoline or other detergents with lower flashing point.

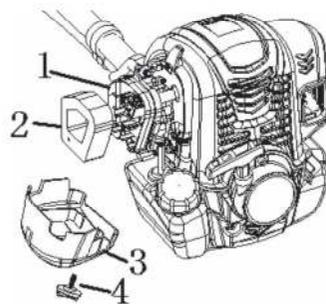
Attention! The air filter element and exterior cover must be installed before operating the machine; otherwise the engine will be worn faster.

Steps of cleaning

1. Loose and unscrew the air filter fastening screw 4;
2. Take off the air filter cover 3;
3. Place the choke valve handlebar to the **N** position and make sure dusts and dirt will not go into the carburetor;
4. Take out the filter element 2 and put it into warm water with mild detergent, knead slightly and dry it.
5. Wipe away the oil stains on the exterior and interior covers of the air filter;
6. After cleaning, reassemble the air filter in a reversed sequence.

Important!

- a) Intervals of cleaning and checking: each day (every 10 hours of operation)
- b) Clean for several times a day when the dusts on the filter element are too much.
- c) If continuing operation without cleaning the oil stains on the filter element, the oil stains in the air cleaners may drop to outside and cause oil pollution.



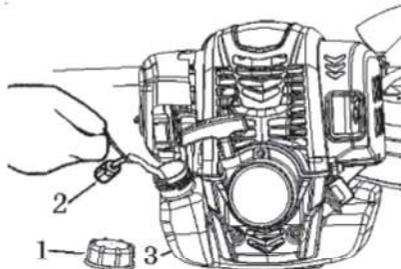
■ Fuel Strainer

● When the oil supply in the fuel tank is not smooth, check if the oil filter has been blocked.

Attention! If the fuel strainer is unsmooth due to too much dirt attached, it may make the rotation speed of the engine hard to increase or result in unstable rotation speed.

Steps of cleaning :

1. Unscrew and take off the fuel tank cap 1;
 2. Use a metal wire to take out the air strainer 2 out from the opening of the fuel tank 3;
- Check if the fuel strainer 2 is dirty or not. If it is dirty, wash it with gasoline or detergent with high flashing point; if it is very dirty, replace with a new one.



■ Spark plug

● Failed engine start or misfire is usually caused by polluted spark plug. Regularly clean the carbon deposit in spark plugs or replace with a new one when necessary.

Attention! The GAMA GARDEN designated model must be utilized when changing spark plugs.



LBC43, LRC43: LT7 (TORCH)

1. Only the attached plug wrench can be used for taking down or fixing spark plugs.
2. The space between the two electrodes of spark plug should be 0.7 - 0.8 mm. Adjust it when it is too broad or narrow. If the spark plug is blocked or polluted, thoroughly clean it or replace with a new one.

Attention! When the engine is operating, be sure not to touch the ignition wire and spark plug cap (danger of high-voltage electric shock).

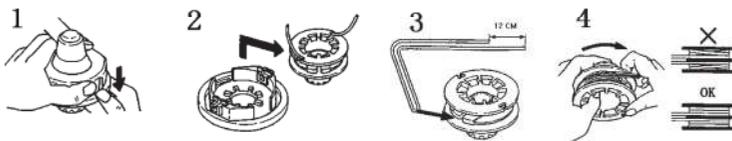
Attention! Don't take down the spark plug right after the machine stops; otherwise the thread on the cylinder matching the spark plug will be damaged.

■ Changing Nylon Cord (Grass-Mowing Cord)



Considering safety, metals cannot be used for enhancing the grass-mowing cord.

1. Please use nylon cord with a diameter of 2.5mm. The cord box can contain nylon cord of 5 meters. If beyond that length, the cord-releasing will be affected.
2. Hold the slotting parts of the two sides of the cord box and open the bottom cap (as picture 1 shows).
3. Take out the coiling box, and pull out the old nylon cords (as picture 2 shows), twine the new nylon cord into twin wires as the picture 3 shows.



4. Coil the new nylon cord on the coiling box as the picture 4 shows.

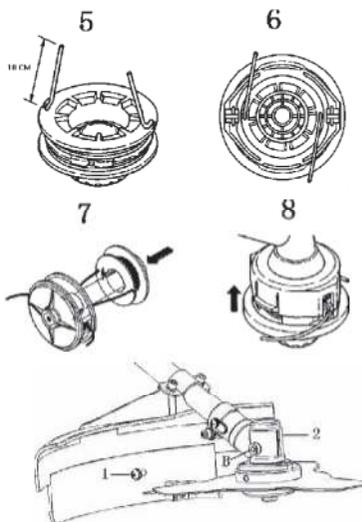
5. Lock the two ends of nylon cords at the slotting at the edge of the coiling box with a thread of 10 cm leaving outside, and pull the two ends through the little holes of the cord box. Be sure to spring and gasket are installed at the proper positions.

6. Place the coiling box back to the cord box and pull the two ends of the cord down through the slot of the box

7. Align the slot on the bottom caps of the cord box at the bayonet of the cord box and press down until hearing a sound of "kata" which indicates it has been locked tightly.

■ Gear Box

For each 25 hours of operation, you need to unscrew M6 bolt 1 and refill the gear box 2 with grease through oil filler point B with an oil gun.



	System or parts	Maintenance	Before use	Used for one month or 10 hours	Every 3 months or 25 hours	Every 6 months or 50 hours	Every 1 year or 100 hours	Remarks
Engine	Leakage or splash of fuel oil	Wipe away	○					
	Engine oil	Check and clean	○					
	Fuel tank	Check and clean	○					Change when necessary
	Air filter	Check and clean		○				Change when necessary
	Oil filter	Check and clean				○		Change when necessary
	Idling adjusting screw	Adjust	○					Change the carburetor when necessary
	Spark plug	Clean and adjust the gap		○				Change when necessary
	Cylinder cooling fin and inlet cooling opening	Clean			○			
Silencer and extinguishment net	Clean					○		
machine tools	Accelerator trigger	Check for the functions	○					
	Flameout switch	Check for the functions	○					
	Sawing parts	Change when the part is damaged.	○					

7 Storage

Warning! When discharging fuel oil, make sure the engine has been shutdown and cooled down. In a short period of shutting down the engine, it may still be hot and may cause burning or fires.

Attention! If you are not going to use the machine for a long time, please discharge completely the fuel oil in the oil tank and carburetor, and keep the machine dry and stored cleanly.

■ Discharging fuel oil in the oil tank and carburetor in the following procedures :

- 1) Take off the fuel tank cover and discharge completely the fuel oil. Clean the foreign body, if any, in the fuel tank.
- 2) Pull out the oil filter from the oil filling port with a thread.
- 3) Press the oil vacuole until fuel oil is discharged and the fuel oil in the fuel oil tank should also be discharged.
- 4) Put the oil filter back to the oil tank and screw down the tank cover.
- 5) Start the engine until it stops.

Measures before storage:

1. Clean the dirt on the machine and check for any loose or damaged parts of the machine. If any, a thorough repair and adjustment should be conducted for next use.
2. Discharge all fuel oil in the fuel oil tank and pump out the fuel oil in the oil vacuole in the carburetor.
3. After taking off the spark plug, fill 1 ~ 2cc two-stroke engine oil in the cylinder stator. Pull the string of the starter for 2-3 times and restore the spark plug to fix it at a compressed position.
4. Paint antirust oil on metal parts and store them in a dry and ventilated room after covering blade shields.
5. Store the discharged fuel oil in special containers and the storage place should be with good ventilation and covers.

8 Troubleshooting

Please check for the faults by yourself before repairing it. If finding any abnormalities, please troubleshoot the bush cutter or grass trimmer in accordance with the troubleshooting of the OI. Please don't go against the instruction, disassemble or remove any parts. For maintenance, please contact the authorized service agent or local distributor.

Abnormalities	Failure cause	Solutions
The engine fails to start-up.	Failed startup pump.	Pull for 7 to 10 times.
	Low velocity of pulling the starter.	Pull hard.
	Empty fuel tank.	Refuel.
	Blocked oil filter.	Clean the oil filter.
	Unsmooth pipeline.	Straighten put the pipeline.
	Deteriorated fuel oil.	Deteriorated fuel oil can result in harder start-up. Change the oil (changing for every 1 month is recommended).
	Too much fuel oil has entered.	Pull the accelerator to top speed and rapidly pull the starter until the engine starts. The blade will rotate when the engine is started. Please be careful. If the engine fails to start, please take off the spark plug and dry the electrode, slightly pull the starter for 5 to 6 times to discharge excessive blended air and then screw down the spark plug. At last, start the engine in the verified way.
	The spark plug cap has fallen off.	Put on the spark plug cap.
	The spark plug has been polluted.	Clean the spark plug.
	Abnormal gap of the spark plug.	Adjust the gap of the spark plug.
	Other abnormalities of the spark plug.	Change for a new spark plug.
	Abnormal carburetor.	Ask for check and maintenance.
	The starting rope cannot be pulled.	Ask for check and maintenance.
	Abnormal gearing.	Ask for check and maintenance.
The engine flameout after start-up. The engine is with no	Insufficient preheating.	Preheat.
high speed.	Although the engine has been preheated, the choke valve handlebar is still at N position.	Change it to the  position.
The blade fails to rotate. Shut down the engine immediately.	Blocked oil filter.	Clean the oil filter.
	Polluted or blocked air filter.	Clean the air filter.
	Accelerator cable has dropped.	Install the accelerator cable
	Abnormal carburetor.	Ask for check and maintenance
	Abnormal gearing.	Ask for check and maintenance
	Nuts fixing the blade is loose	Screw down the nuts
Abnormal mainframe vibration. Shut down the engine immediately.	Abnormal gearing.	Ask for check and maintenance
	The blade is broken, curved or worn.	Change blades.
	Nuts fixing the blade is loose	Tighten the nuts.
The blade continues to rotate after the accelerator has been loosed. Shut down the engine immediately.	The embossing parts of the blade and parts bearing the blade are displaced.	Tighten the taken-off plugs.
	Abnormal gearing.	Ask for check and maintenance
	Excessive idling.	Adjust idling.
The engine can't be shut down (please immediately loose the accelerator trigger, shut the choke valve and force to flameout)	Abnormal gearing.	Ask for check and maintenance
	The flameout connecting plug is dropped.	Tighten the flameout connecting plug.
	Abnormal electrical system.	Ask for check and maintenance

9 Performance Parameter

Model		GBC33	GBC43
Engine	Model	G33	G43
	Type	Single Cylinder, Air Cooling, Two Stroke	
	Displacement	32.6cc	42.7 cc
	Cylinder Diameter xStroke	36x32 mm	40x34 mm
	Idling	3000 rpm	3000 rpm
	Maximum Power	0.9kW/7000rpm	1.2kW/7500 rpm
	Volume of Fuel Tank	0.85 L	1.0 L
	Fuel Oil	40:1 (Gasoline of 90# and above and engine oil for	
	Spark Plug	L7T	L7T
Brush Cutter, Grass Trimmer	Engagement Revolution of Clutch	4400±400 rpm	
	Volume of Lube in Gear Box	100 cc	
	Lube Type	Lithium Base Grease	
	Driving Axle (mm)	8 mm	
	Type of Handlebar	U- type handlebar	U- type handlebar
	Sheave	Width of Cutting	430 mm
Diameter of Nylon Cord		2.5 mm	2.5 mm
Blade	Type	3 teeth	3 teeth
	Diameter of Cutting	255 mm	255 mm
	Power Transmission Mode	Automatic Centrifugal Clutch, Spiral Bevel Gear	
	Reduction Ratio	1.357 (19:14)	
Blade Rotating Direction	Anti-Clockwise (in The Perspective of Operators)		
Dimensions and Weight	Weight of the Complete Machine	7.0kg	7.4kg
	Length	1860mm	1870mm
	Width	600mm	600mm
	Height	400mm	400mm



This symbol on the device or the packaging indicates that the product shall not be managed as household waste. Please dispose of it at the collecting place assigned for the collection of electrical and electronic devices. By proper management of superseded products you can help prevent the environment and human health from damage which would occur if you do not follow the proper way of waste disposal. The recycling of the materials helps in the preservation of the natural resources. For further information on the recycling of the product, please turn to the competent authorities, the local waste collecting service provider or the shop where this product was bought.

Information concerning the packaging materials

The used packaging materials must be thrown into the relevant waste collector.

GAMA Garden Ltd., 4900 Fehérgyarmat, Szatmári u. 11 certifies CE conformity of the above-mentioned product and that it complies with the technical data specified in the data plate and the "Operating instructions".