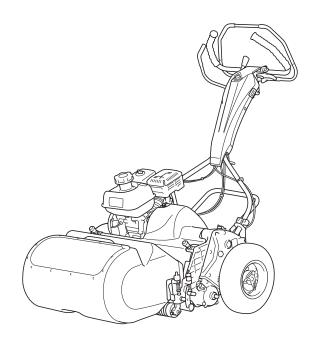
LM56GC·LM66GC LM66TC

Walk Behind Greens Mower Walk Behind Tee Mower

Owner's Operating Manual



Serial No. LM56GC: 35521- LM66GC: 35535-

LM66TC: 35073-

"Required reading"
Read this manual before using the machine.



LM56GC · LM66GC / LM66TC

Greeting

Thank you for purchasing the Baroness product. This manual describes the proper handling, adjustment, and inspection of your product. We hope you will use the product safely, and take advantage of its best performance.

Introduction

Read this manual carefully to ensure that you thoroughly understand how to properly operate and maintain the product, and to avoid causing injury to yourself or others.

The operator is responsible for operating the product properly and safely.

Maintenance should only be performed by a certified specialist.

If you have any questions concerning maintenance or genuine parts, please contact a Baroness dealer or Kyoeisha.

When making inquiries about the product, please specify the product's model designation and serial number.

When loaning or transferring the product, please also provide this manual together with the product.

Kyoeisha Co., Ltd.

Warning Symbols

This manual uses the following warning symbols for handling precautions that are important for your safety.



Warning symbol

696cq5-001

This symbol indicates the articles regarding "Danger," "Warning," or "Caution."

Those articles describe important safety precautions and so read them carefully to understand completely before operating the machine.

Failure to adequately follow these safety precautions may cause an accident.

♠ Danger

This symbol indicates that serious injury or death will occur if the warning is ignored.



This symbol indicates that serious injury or death may occur if the warning is ignored.



This symbol indicates that injury or damage to property may occur if the warning is ignored.

Important

This symbol indicates precautions on the mechanism of the machine.

Introduction

Precautionary Statement



The information described in this manual is subject to change for improvement without prior notice.

When replacing parts, be sure to use genuine Baroness parts or parts designated by Kyoeisha.

Note that the Baroness product warranty may not apply to defects caused by the use of parts from other companies.

Prior to use, carefully read the following manuals to thoroughly understand the contents for safe and correct operation.

- · Baroness Owner's Operating Manual
- · The Engine's Owner's Manual

Purpose

This machine is intended for cutting turf grass at golf courses.

Do not use this machine in any way other than its intended purpose, and do not modify the machine.

Operating this machine for other purposes and modifying it may be very dangerous and may cause damage to the machine.

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Contents

Safety

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Safety

Failure to adequately follow these safety precautions may cause an accident resulting in injury or death.

♠ Danger

This product is designed to ensure safe operation and has been tested and inspected thoroughly before shipment from the factory. The product is equipped with safety devices to prevent accidents.

However, whether the product demonstrates its original performance level depends on the manner in which it is operated and handled, as well as the manner in which it is managed on a daily basis.

Inappropriate use or management of the product may result in injury or death. Observe the following safety instructions to ensure safe operation.

Safe Operating Practices

Training

- 1. Read this manual and other training material carefully.
 - Be familiar with the controls, safety signs, and the proper use of the equipment.
- 2. If the operator or mechanic can not read English it is the owner's responsibility to explain this manual to them.
- All operators and mechanics should seek and obtain professional and practical instruction.
 - The owner is responsible for training the users.
- Never allow people unfamiliar with these instructions to use or service the machine. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people, or property.
- Keep in mind that the owner, operator, and mechanic are responsible for accidents or hazards occurring to other people or their property.
- 7. You can find additional safety information where needed throughout this manual.
- 8. Determine the left and right sides of the machine from the normal operating position.

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safety perform the job. Only use accessories and attachments approved by the manufacturer.
- While operating, always wear substantial footwear, long trousers, hard hat, safety glasses, and ear protection. Long hair, loose clothing, or jewelry may get tangled in moving parts.
 - Do not operate the equipment when barefoot or wearing open sandals.
- Inspect the area where the equipment is to be used and remove all objects such as rocks, toys and wire which can be thrown by the machine.
- 4. Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
- 5. Exercise care in the handling of fuel.



Warning-Fuel is highly flammable. Take the following precautions.

- [1] Store fuel in containers specifically designed for this purpose.
- [2] Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
- [3] Refuel outdoors only and do not smoke while refueling.
- [4] If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
- [5] Replace all fuel tanks and container caps securely.
- Check that operator's presence controls, safety switches and shields are attached and functioning properly.
 Do not operate unless they are functioning
 - Do not operate unless they are functioning properly.
- 7. If the brake operation is faulty or the parking brake lever has noticeable play, be sure to adjust or repair them before operating the machine.
- 8. Replace faulty mufflers.

Operation

- 1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- 2. Only operate in good light, keeping away from holes and hidden hazards.
- 3. Before attempting to start the engine, disengage all attachments, shift into neutral, and engage the parking brake.
- 4. Start the engine or switch on the motor carefully according to this manual and with feet well away from the blade(s).
- 5. Avoid operating the equipment in wet grass, where feasible.
- 6. Always be sure of your footing on slopes.
- 7. Walk, never run.
- 8. Remember there is no such thing as a safe slope.
 - Travel on grass slopes requires particular care.
 - To guard against overturning:
 - [1] Do not mow excessively steep slopes.
 - [2] Do not stop or start suddenly when going up or downhill.
 - [3] Engage clutch slowly, always keep machine in gear, especially when traveling downhill.
 - [4] Machine speeds should be kept low on slopes and during tight turns.
- 9. Use extra care while operating machine with a grass catcher or other attachments. They can affect the stability of the machine.
- 10. Never operate the machine with damaged guards, shields, or without safety protective devices in place.
 - Be sure all interlocks are attached, adjusted and functioning properly.
- Do not change the engine governor settings or overspeed the engine.
 Operating the engine at excessive speed may increase the hazard of personal injury.
- 12. Pay attention not to touch hot parts.
- 13. Do the following before leaving the operator's position.
 - [1] Stop on level ground.
 - [2] Disengage the cutting unit and traction drive:
 - [3] Set the parking brake;
 - [4] Stop the engine.

- 14. Stop the engine in the following conditions.
 - [1] Before refueling.
 - [2] Before removing the grass catcher/catchers.
 - [3] Before making height adjustment unless adjustment can be made from the operator's position.
 - [4] Before cleaning blockages.
 - [5] Before checking, cleaning, or working the machine.
 - [6] Whenever you leave the machine.
 - [7] After striking a foreign object or if an abnormal vibration occurs. Inspect the machine for damage and make repairs before restarting and operating the equipment.
- 15. Keep hands and feet away from the cutting units and the rotating parts.
- 16. Never pick up or carry a lawnmower while the engine is running.
- 17. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- 18. Never operate while people, especially children, or pets are nearby.
- 19. Slow down and use caution when making turns and crossing roads and sidewalks.
- 20. Stop the blades rotating before crossing surfaces other than grass.
- 21. Disengage drive to attachments when transporting or not in use.
- 22. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
- 23. Do not operate the machine under the influence of alcohol or drugs.
- 24. Take care when loading or unloading the machine into a trailer or a truck. Load or unload the machine in a flat and safe place.
 - Before loading or unloading, set the parking brake on the truck or trailer, stop the engine, and chock the wheels.

Safety

When transporting the machine on a truck or a trailer, set the parking brake, stop the engine, and fasten the machine to the truck with a rope or other suitable restraining device that has sufficient strength.

When using a running board, select one with sufficient strength, length, and width and that will not cause the machine to slip.

- 25. Close the fuel valve before transporting the machine.
- 26. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- 27. Do not take your eyes off the road ahead. Do not operate the machine with no hands.
- 28. Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of operation.
- 29. Do not operate the machine when there is the risk of lightning.

Maintenance and Storage

- Disengage drives on level ground, disengage the cutting unit, set parking brake, stop engine and disconnect spark plug wire. Wait for all movement to stop before adjusting, cleaning or repairing.
- To reduce the fire hazard, keep the engine, silencer/muffler, compartment fuel storage area, cutting unit and drives free of grass, leaves, or excessive grease. Clean up oil or fuel spillage.
- 3. Allow the engine to cool before storing in any enclosure.
- 4. Only cover the machine with a sheet after hot parts have sufficiently cooled down.
- 5. Never store the equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.
- 6. If the engine is provided with a shut-off valve, shut off valve while storing or transporting.
- 7. Do not store fuel near flames.
- 8. Never allow untrained personnel to service machine.
- 9. Allow the engine/muffler to cool before checking/maintenance.
- Appropriately manage and correctly use the tools necessary for servicing or adjusting the machine.

- 11. Use jack stands to support components when required.
- 12. Carefully release pressure from components with stored energy.
- 13. Make sure that parts such as wires are not touching each other and that their covers have not come off.
- 14. Use care when checking the cylinders/reels and bed knives.
 - [1] Wear gloves and use caution when servicing them.
 - [2] Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.
- 15. Keep hands and feet away from moving parts.If possible, do not make adjustments with the engine running.
- 16. Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- 18. Check the grass catcher frequently for wear or deterioration.
- 19. If the fuel tank has to be drained, do this outdoors.

Disposal

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Disposal

Recycle and Waste Disposal

About Recycle

Recycling battery etc. is recommended for environmental conservation and economical use of resources.

It may be required by local laws.

About Waste Disposal

Make sure that waste generated when servicing or repairing the machine is disposed of in accordance with local regulations. (e.g. waste oil, antifreeze, rubber products, and wires etc.)

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Specifications

Specifications List

LM56GC

Model			LM56GC		
Total length with grass catcher		55.51 in	141 cm		
Dimensions	Total width	without travelling wheel	37.01 in	94 cm	
	Total height	Steering handle	45.67 in	116 cm	
	Total we	ight (empty fuel tank)	224.87 lb	102 kg	
	Grass ca	atcher *1	7.28 lb	3.3 kg	
Weight	Groome	r *1	7.94 lb	3.6 kg	
	Travellin machine	g wheel (for one e) *1	15.21 lb	6.9 kg	
Minimum turni	ng radius		-		
	Model		HONDA GX120		
F	Туре		Gasoline air-cooled engine (OHV) four-stroke single-cylinder	
Engine	Total dis	placement	7.20 cu.in.	118 cm ³ (0.118 L)	
	Maximur	m output	2.6 kW (3.5 PS)/3,600 rpm		
Fuel tank capa	acity		Gasoline 0.53 U.S.gals	Gasoline 2.0 dm ³ (2.0 L)	
Fuel consump	tion		237.57 g/PS · h (rated output)	323 g/kW • h (rated output)	
Engine oil cap	acity		0.15 U.S.gals	0.56 dm ³ (0.56 L)	
Coolant volum	е		-		
Hydraulic tank	capacity		-		
Operating widt	th (Mowin	g width)	22 in	55.7 cm	
On a rationar la sia	ulat / N / a i.	an bairbt)	0.118 (0.177) - 1.142 in	3.0 (4.5) - 29.0 mm	
Operating heigh	int (iviowii	ng neight)	[0.118 (0.177) - 1.063 in] *2	[3.0 (4.5) - 27.0 mm] *2	
Blades			11		
Drive	Traveling	g	Mechanical		
Dilve	Mowing		Mechanical		
Speed (HST)			-		
Speed (Mecha	nical)		2.92 mph (@3,000 rpm)	4.7 km/h (@3,000 rpm)	
Efficiency			0.51 acres/hour (2.92 mph x mowing width x 0.8)	2,094 m ² /h (4.7 km/h x mowing width x 0.8)	
Maximum inclination for operation		operation	-	,	
Tire size		•	4.10/3.50-6		
Tire pneumatic pressure		9	17.40 psi	120 kPa (1.2 kgf/cm²)	
Battery			-	, , , , , ,	
Engine plug			NGK BPR4ES		
	Working	width	20.08 in	51.0 cm	
Front groomer	Number of Blades		78		

Page 3-2 Specifications

Dethatching	Working width	19.84 in	50.4 cm
Reel	Number of Blades	39	
Datam Davah	Working width	19.29 in	49.0 cm
Rotary Brush	Turning Diameter	2.36 in	6.0 cm

The factory default maximum engine rpm is 3,400 rpm.

- *1: Total weight includes *1 parts.
- *2: The indicated lowest mowing height is for general application. It may be adjusted according to the state of green and the bed knife to be installed.

The value in the brackets [] is the mowing height of the machine equipped with a groomer.

The value in the brackets () is the mowing height of the machine equipped with a standard bed knife.

Specifications Page 3-3

LM66GC

Model			LM66GC	
	Total length	with grass catcher	55.51 in	141 cm
Dimensions	Total width	without travelling wheel	40.55 in	103 cm
	Total height	Steering handle	45.67 in	116 cm
	Total we	ight (empty fuel tank)	240.30 lb	109 kg
	Grass ca	atcher *1	7.94 lb	3.6 kg
Weight	Groomer	- *1	8.82 lb	4.0 kg
	Travellin machine	g wheel (for one) ^{*1}	15.21 lb	6.9 kg
Minimum turnin	g radius		-	
	Model		HONDA GX120	
Engine	Туре		Gasoline air-cooled engine (OHV)	four-stroke single-cylinder
Engine	Total dis	placement	7.20 cu.in.	118 cm ³ (0.118 L)
	Maximur	n output	2.6 kW (3.5 PS)/3,600 rpm	
Fuel tank capa	city		Gasoline 0.53 U.S.gals	Gasoline 2.0 dm ³ (2.0 L)
Fuel consumpt	ion		237.57 g/PS · h (rated output)	323 g/kW • h (rated output)
Engine oil capa	city		0.15 U.S.gals	0.56 dm ³ (0.56 L)
Coolant volume	9		-	
Hydraulic tank	capacity		-	
Operating width	n (Mowing	y width)	26 in	64.6 cm
On a ration a la sign	ht (Massin	e la simbt)	0.118 (0.177) - 1.142 in	3.0 (4.5) - 29.0 mm
Operating heigh	nt (iviowin	g neight)	[0.118 (0.177) - 1.063 in] *2	[3.0 (4.5) - 27.0 mm] *2
Blades			11	
Daire	Traveling	3	Mechanical	
Drive	Mowing		Mechanical	
Speed (HST)			-	
Speed (Mechai	nical)		2.92 mph (@3,000 rpm)	4.7 km/h (@3,000 rpm)
			0.60 acres/hour	2,429 m ² /h
Efficiency			(2.92 mph x mowing width x 0.8)	(4.7 km/h x mowing width x 0.8)
Maximum inclir	nation for	operation	-	
Tire size			4.10/3.50-6	
Tire pneumatic pressure			17.40 psi	120 kPa (1.2 kgf/cm ²)
Battery			-	
Engine plug		NGK BPR4ES		
Front	Working width		23.74 in	60.3 cm
Front groomer	Number of Blades		92	
Dethatching	Working	width	23.46 in	59.6 cm
Reel	Number	of Blades	46	
Potany Bruch	Working	width	22.63 in	57.5 cm
Rotary Brush	Turning I	Diameter	2.36 in	6.0 cm

Page 3-4 Specifications

The factory default maximum engine rpm is 3,400 rpm.

- *1: Total weight includes *1 parts.
- *2: The indicated lowest mowing height is for general application. It may be adjusted according to the state of green and the bed knife to be installed.
 - The value in the brackets [] is the mowing height of the machine equipped with a groomer.

The value in the brackets () is the mowing height of the machine equipped with a standard bed knife.

Specifications Page 3-5

LM66TC

Model			LM66TC		
	Total length	with grass catcher	55.51 in	141 cm	
Dimensions	Total width	without travelling wheel	40.55 in	103 cm	
	Total height	Steering handle	45.67 in	116 cm	
	Total we	ight (empty fuel tank)	235.89 lb	107 kg	
	Grass ca	atcher *1	7.94 lb	3.6 kg	
Weight	Groomei	r *1	8.82 lb	4.0 kg	
	Travellin machine	g wheel (for one) ^{*1}	15.21 lb	6.9 kg	
Minimum turnin	ng radius		-		
	Model		HONDA GX120		
	Туре		Gasoline air-cooled engine (OHV) four-stroke single-cylinder	
Engine	Total dis	placement	7.20 cu.in.	118 cm ³ (0.118 L)	
	Maximur	n output	2.6 kW (3.5 PS)/3,600 rpm		
Fuel tank capa	city		Gasoline 0.53 U.S.gals	Gasoline 2.0 dm ³ (2.0 L)	
Fuel consumpt	ion		237.57 g/PS • h (rated output)	323 g/kW • h (rated output)	
Engine oil capa	city		0.15 U.S.gals	0.56 dm ³ (0.56 L)	
Coolant volume	 		-		
Hydraulic tank	capacity		-		
Operating width		g width)	26 in	64.6 cm	
			0.177 (0.276) - 1.142 in	4.5 (7.0) - 29.0 mm	
Operating heigh	ht (Mowin	g height)	[0.177 (0.276) - 1.063 in] *2	[4.5 (7.0) - 27.0 mm] *2	
Blades			7		
<u> </u>	Traveling	9	Mechanical		
Drive	Mowing		Mechanical		
Speed (HST)			-		
Speed (Mechai	nical)		2.67 mph (@3,000 rpm)	4.3 km/h (@3,000 rpm)	
Efficiency			0.55 acres/hour (2.67 mph x mowing width x 0.8)	2,222 m ² /h (4.3 km/h x mowing width x 0.8)	
Maximum inclir	nation for	operation	_	0.0)	
Tire size		- h- scamacc	4.10/3.50-6		
Tire pneumatic pressure			17.40 psi	120 kPa (1.2 kgf/cm ²)	
Battery			-	· · · · · · · · · · · · · · · ·	
Engine plug			NGK BPR4ES		
	Working width		23.74 in 60.3 cm		
Front groomer	Number of Blades		92		
Dethatching	Working width		23.46 in	59.6 cm	
Reel		of Blades	46		
	Working		22.63 in	57.5 cm	
Rotary Brush	Turning Diameter		2.36 in	6.0 cm	

Page 3-6 Specifications

The factory default maximum engine rpm is 3,400 rpm.

- *1: Total weight includes *1 parts.
- *2: The indicated lowest mowing height is for general application. It may be adjusted according to the state of green and the bed knife to be installed.

The value in the brackets [] is the mowing height of the machine equipped with a groomer.

The value in the brackets () is the mowing height of the machine equipped with a standard bed knife.

Sound Pressure Level

LM56

■Sound Pressure Level

This machine was confirmed to have a continuous A-weighted sound pressure level of 87 dB by measuring identical machines in accordance with the procedure specified in ISO 5395-1:2013.

LM66

■Sound Pressure Level

This machine was confirmed to have a continuous A-weighted sound pressure level of 87 dB by measuring identical machines in accordance with the procedure specified in ISO 5395-1:2013.

Sound Power Level

LM56

■Sound Power Level

This machine was confirmed to have a sound power level of 98 dB by measuring identical machines in accordance with the procedure specified in ISO5395-1:2013.

LM66

■Sound Power Level

This machine was confirmed to have a sound power level of 98 dB by measuring identical machines in accordance with the procedure specified in ISO5395-1:2013.

Vibration Level

LM56

■Hand-Arm Vibration

This machine was confirmed not to exceed a vibration level of 2.5 m/s² to hands and arms by measuring identical machines in accordance with the procedure specified in ISO 5395-1:2013.

LM66

■Hand-Arm Vibration

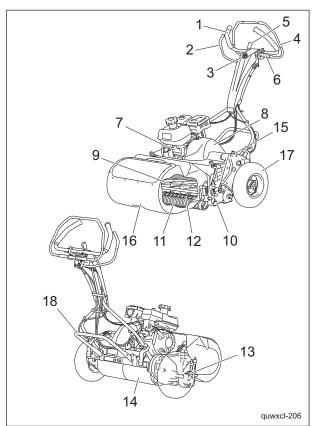
This machine was confirmed not to exceed a vibration level of 2.5 m/s² to hands and arms by measuring identical machines in accordance with the procedure specified in ISO 5395-1:2013.

Carbon Dioxide (CO₂) Emissions Measurement

For CO₂ emissions measurement on Honda engine, refer to the following website. http://www.honda-engines-eu.com/co2-engines This CO₂ measurement results from testing over a fixed test cycle under laboratory conditions of a(an) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

Specifications Page 3-7

Names of Each Section

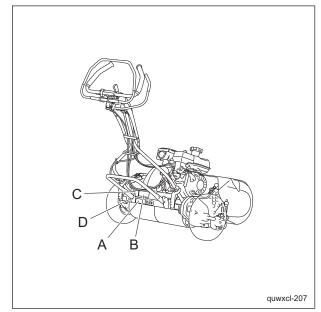


Names of Each Section_001

ľ	Names of Each Section_001			
	1	Handle		
	2	Throttle lever		
	3	Engine switch		
	4	Main clutch lever		
	5	Clutch lock lever		
	6	Brake lever		
	7	Engine		
	8	Engine clutch cover		
	9	Reel cutter		
	10	Bed knife		
	11	Front roller		
	12	Groomer		
	13	Groomer clutch lever		
	14	Drum		
	15	Traveling/ Working selector lever		
	16	Grass catcher		
	17	Traveling tires		
	18	Stand		

Regulation Decals

Positions of Regulation Decals



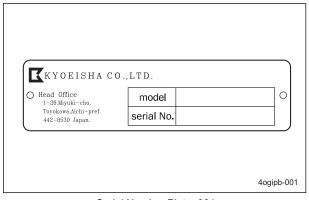
Positions of Regulation Decals_001

Α	Serial number plate
В	Specification decal
С	Noise emission decal
D	Year of manufacture decal

Description of Regulation Decals

Serial Number Plate

The serial number plate indicates the model and serial number of the machine.



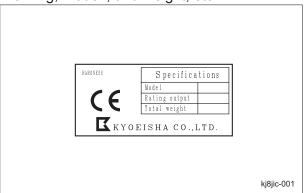
Serial Number Plate_001

Page 3-8 Names of Each Section

Specification Decal

(For Europe)

The Specification decal indicates the CE marking, model, and weight, etc.

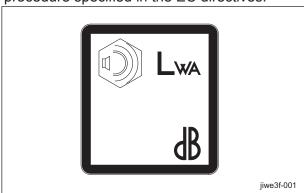


Specification Decal_001

Noise Emission Decal

(For Europe)

The noise emission decal indicates the sound power level determined by measuring identical machines in accordance with the procedure specified in the EC directives.

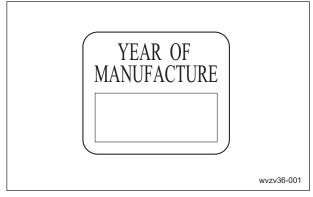


Noise Emission Decal_001

Year of Manufacture Decal

(For Europe)

The year of manufacture decal indicates the year when this machine was manufactured.



Year of Manufacture Decal_001

Safety Signs and Instruction Signs

About Safety Signs and Instruction Signs

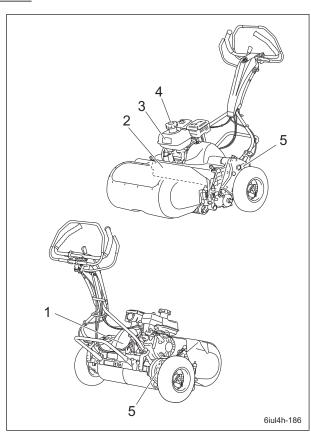
Important

Safety decals and instruction decals are attached to this product.

Make sure that they are preserved in their entirety. If they are damaged, become dirty, or peel off, replace them with new ones.

Part numbers for decals that need to be replaced are listed in the parts catalog. Order them from a Baroness dealer or Kyoeisha.

<u>Positions of Safety Decals and Instruction</u> Decals



Positions of Safety Decals and Instruction Decals_001

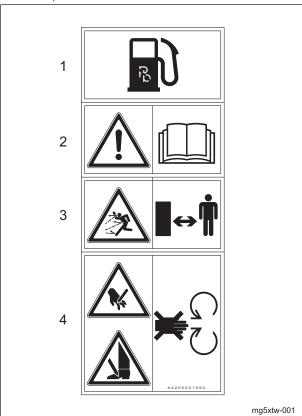
1	Caution safety instruction decal
2	Caution to mutilation decal
3	Caution to noise decal
4	Warning engine oil decal
5	Greasing 10HR decal

Description of Safety Decals and Instruction Decals

Caution Safety Instruction Decal

K4205001590

DECAL, CAUTION SAFETY INSTRUCTION



Caution Safety Instruction Decal 001

1. Use lead-free gasoline.

Warning

Read the Owner's Operating Manual.

3.

▲ Caution

Flying objects - Be sure that people around the machine keep a safe distance away.

4.

A Warning

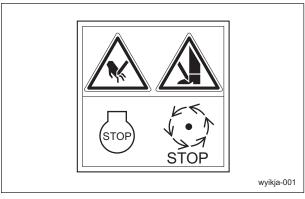
May cut your hand or leg - When the blades are rotating, keep hands and feet away from moving parts.

Caution to Mutilation Decal

K4205001600 DECAL, CAUTION TO MUTILATION

Warning

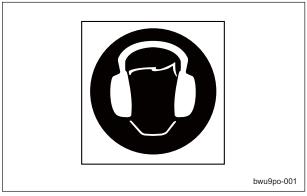
May cut your hand or leg - Stop the cutter rotation and engine. Otherwise you may get injured.



Caution to Mutilation Decal_001

Caution to Noise Decal

K4205001330 DECAL, CAUTION TO NOISE



Caution to Noise Decal_001

Engine Oil Warning Decal

K4205001300 DECAL, WARNING ENGINE OIL

Important

Check engine oil and gearbox levels before starting.



Engine Oil Warning Decal_001

Greasing Each 10-Hours Decal

K4209000370 DECAL, GREASING EACH 10-HOURS Add grease every 10 hours.



Greasing Each 10-Hours Decal_001

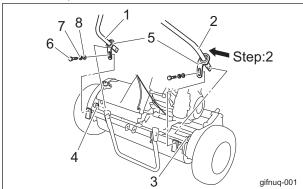
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Preparation for Use

Installing The Handle

- 1. Put the handle pin on the left frame into the hole at the left-side lower edge of the handle.
- 2. While pressing the right-side lower edge of the handle inward, put the handle pin of the right frame into the hole.
- Secure the lower edges (slotted section of the handle adjusters) of the right and left sides of the handle to the rear frame stay from the back with the bolts, conical spring washers, and washers.



Installing The Handle_001

1	Left-side lower edge of handle
2	Right-side lower edge of handle
3	Handle pin (Right frame)
4	Handle pin (Left frame)
5	Handle adjuster
6	Bolt
7	Conical spring washer
8	Washer

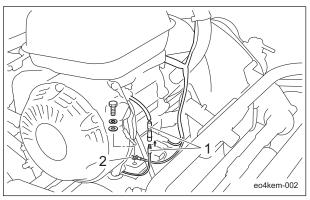
Connection of Engine Switch Cord

Important

When the connection of the engine switch cord is incomplete, the engine will not stop even if the engine switch is operated.
Check that the cord is correctly connected.

When assembling the handle, check the connection of the engine switch cord. There are two connections - plug and crimp terminal.

- 1. The plug is connected to the plug connected to the engine.
- 2. The crimp terminal is secured to the engine crankcase with a hexagon bolt.

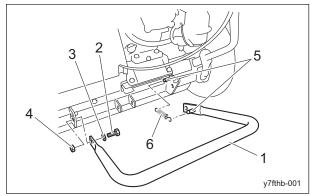


Connection of Engine Switch Cord_001

1	Plug
2	Crimp terminal

Installing The Stand

- 1. With the inside projection side set to the right, temporarily secure the left side of the stand to the frame with the bolt, washer (inside), and nut (outside).
- 2. Put the spring on the projection of the frame and the projection at the right edge of the stand.



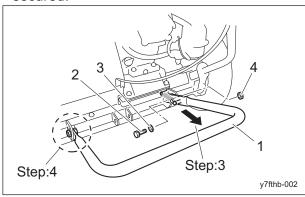
Installing The Stand_001

1	Stand
2	Bolt
3	Washer
4	Nut
5	Projection
6	Spring

3. While pulling the right side of the stand backward, make alignment with the hole in the frame, and secure the stand with the bolt, washer (inside), and nut (outside).

Page 4-2 Preparation for Use

4. Tighten the bolt, washer, and nut at the left side of the stand that were temporarily secured.



Installing The Stand_002

1	Stand
2	Bolt
3	Washer
4	Nut

Confirmation of The Operation

- 1. Check that the brake operates completely.
- 2. Check that the engine clutch operates completely.
- 3. If necessary, make adjustment.

Inspections

Inspect the machine according to the maintenance schedule so that you will be able to take advantage of its optimum performance for a long period of time.

Reel Cutter (Cutting Cylinder) and Bed Knife (Bottom Blade)

Inspection of Reel Cutter (Cutting Cylinder) and Bed Knife (Bottom Blade)



Wear gloves when touching edged tools to avoid cutting your hands.

The reel cutter (cutting cylinder) and bed knife (bottom blade) may become dull due to frequent use, objects crushed during mowing, or damage caused during transportation.

Inspect the reel cutter (cutting cylinder) and bed knife (bottom blade), and if necessary, adjust the blade engagement, perform back lapping, or resharpen or replace the reel cutter (cutting cylinder) and the bed knife (bottom blade).

- 1. Check to see whether or not the edge of the reel cutter (cutting cylinder) and the bed knife (bottom blade) are too blunt to cut.
- Make sure that the reel cutter (cutting cylinder) and the bed knife (bottom blade) are not cracked.
- Check to see how much the reel cutter (cutting cylinder) and the bed knife (bottom blade) are worn.
- Make sure that the reel cutter (cutting cylinder) and the bed knife (bottom blade) have not changed color due to heat from grinding.
- 5. Check to see whether or not the second edge face (relief) remains at the point of reel cutter (cutting cylinder).
- 6. Make sure that the welding between the reel cutter (cutting cylinder) and the disc has not come off.

Cover

Inspection of Covers



If you have removed the covers during inspection, be sure to securely install them in their original positions.

If a cover remains removed, the operator may come into contact with rotating parts or belts and foreign objects may fly off, possibly resulting in injuries.

- Make sure that there is no wear or deterioration of the reel cover and all other covers
- 2. Make sure that there is no damage to the reel cover and all other covers.
- 3. Make sure that there is no interference with moving parts due to deformation of the reel cover and all other covers.
- 4. Make sure that the reel cover and all other covers are installed in their appropriate positions.

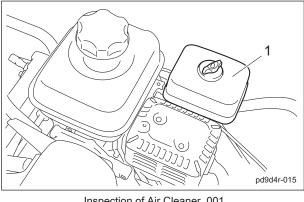
Inspections Page 4-3

Air Cleaner

Inspection of Air Cleaner

The air cleaner is a component that removes dirt from the intake air to prevent wear of the cylinder liners and piston rings so that the engine will always operate smoothly. A contaminated air cleaner element may cause malfunction of the engine.

- 1. Make sure that there is no damage to the air cleaner.
- 2. Make sure that the air cleaner element is not contaminated.



Inspection of Air Cleaner_001

1 Air cleaner

Cleaning of Air Cleaner

A contaminated air cleaner elements may cause malfunction of the engine.

To maximize the life of the engine, clean the air cleaner properly.

- 1. Remove the wing screw, and then remove the cover.
- 2. Remove the screw, and then remove the air cleaner elements.
- 3. Remove the urethane element from the paper element.

Important

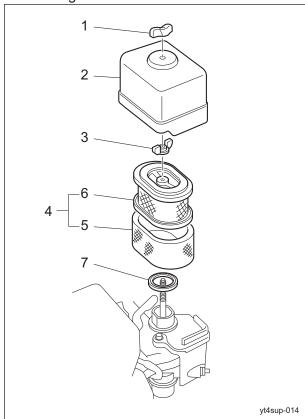
When cleaning the paper element, do not use petroleum solvents.

Important

Replace the air cleaner elements when it gets damaged or dirty.

Clean the urethane element with a solvent, such as a hardly flammable kerosene, and then soak it in the engine oil and wring out.

- 5. Remove dirt and dust from the paper element with blowing air or patting.
- 6. Assemble the paper and urethane elements.
- 7. Attach the air cleaner elements with the screw.
- 8. Set the cover, and then secure it firmly with the wing screw.



Cleaning of Air Cleaner_001

Olcaring of All Olcarici_001	
1	Wing screw
2	Cover
3	Screw
4	Air cleaner element
5	Urethane element
6	Paper element
7	Gasket

Page 4-4 Inspections

Roller

Inspection of Rollers

Bearing wear due to frequent use or bearing damage caused by water infiltration may prevent the roller from rotating smoothly. Inspect the roller and, if necessary, replace parts such as oil seals and bearings.

- 1. Make sure that there is no abrasion nor adhesion of the roller.
- 2. Make sure that there is no wear of the roller shaft.
- 3. Make sure that there is no wear nor damage of the oil seal.
- 4. Make sure that there is no wear nor rust of the bearing.
- 5. Make sure that there is no play in the roller shaft.

Drum

Inspection of Drum

- 1. Make sure that the drum is not cracked or damaged.
- 2. Make sure that there is no abrasion or adhesion of the drum.
- 3. Make sure that there is no play in the fit of the drum and the bearing.

Tire

Inspection of Tires

- 1. Check the pneumatic pressure of the tires.
- 2. Make sure that there are no cracks, damage or abnormal wear.

	Tire size	Pneumatic pressure
Tire for	4.10/3.50-6	120 kPa (1.2 kgf/
traveling	4.10/3.50-6	cm ²)

Brake

Inspection of Brake

- 1. Grip the brake lever and make sure that the brake can operate completely.
- 2. Operate the lock lever and make sure that it can lock the brake lever.
- 3. Make sure that the brake is not applied even slightly after releasing the lock on the brake lever.

Wire

Inspection of Wire

- 1. Make sure that the wire is not cracked or damaged.
- 2. If the wire is cracked or damaged, replace it with a new one immediately.

Around The Engine

Inspection of Engine-Associated Parts

- Check the fuel system parts for loosened or cracked joints and leakage. Replace the parts if necessary.
- 2. Blow compressed air to clean any grass or flammable materials that may be attached on or around the muffler.

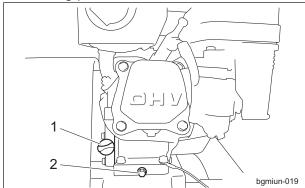
Engine Oil

Inspection of Engine Oil

Important

Screw the oil level gauge firmly.

- 1. Stop the engine, wait for 10 to 20 minutes for the engine to cool down, and then check the oil level.
- Position the machine so that the engine will be level, then check the engine oil level without screwing the oil level gauge into the oil filling port.

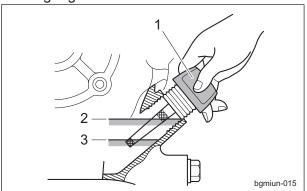


Inspection of Engine Oil_001

1	Oil level gauge (Oil filling port)
2	Drain plug

Inspections Page 4-5

3. The appropriate engine oil level should be between the upper and lower limit lines on the gauge.



Inspection of Engine Oil 002

1	Oil level gauge
2	Upper limit
3	Lower limit

4. Screw the oil level gauge firmly.

Supply of Engine Oil

Important

Do not supply too much engine oil. Otherwise, the engine may be damaged.

Important

Do not mix different types of engine oil.

Important

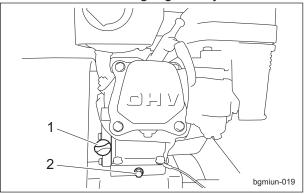
Be sure to use engine oil that is classified as API Service Grade SE or higher, with an SAE Viscosity that is appropriate for the operating environment (ambient temperature).

Important

Screw the oil level gauge firmly.

- 1. Remove the oil level gauge.
- Through the oil filling port, supply new engine oil until the engine oil reaches a level in the upper limit lines on the oil level gauge.
- Position the machine so that the engine will be level, then check the engine oil level without screwing the oil level gauge into the oil filling port.

4. Screw the oil level gauge firmly.



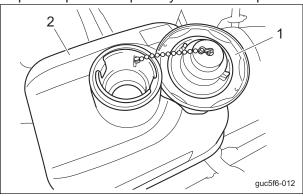
Supply of Engine Oil_001

1	Oil level gauge (Oil filling port)
2	Drain plug

Fuel

Inspection of Fuel Quantity

Level the machine and then remove the tank cap to inspect fuel quantity from the fill port.



Inspection of Fuel Quantity_001

1	Tank cap
2	Fuel tank

Page 4-6 Inspections

Fuel Supply



A Caution

Do not supply fuel above FULL level of the fuel gauge.

If you supply too much fuel, it might overflow from the fuel cap when you travel or work on a slope.



▲ Caution

Keep fire away while refueling. Do not smoke while refueling.



Caution

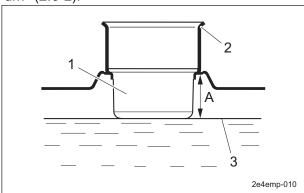
Supply fuel after the engine is stopped and has well cooled down.



Pay attention not to touch hot parts.

Inspect the fuel quantity and put fuel (gasoline) if insufficient.

The fuel tank capacity is approximately 2.0 dm³ (2.0 L).



Fuel Supply_001

- 1		
	1	Fuel strainer
	2	Filling opening
	3	Maximum limit of fueling
	Α	2.5 cm (0.98 in)

Fuel Strainer

Inspection of Fuel Strainer

The fuel strainer is located in the piping for fuel supply system and removes contamination.

1. Make sure that there is no fuel leakage.

2. Make sure that the fuel strainer is not damaged or dirty.

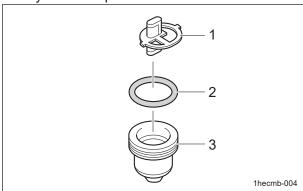
Cleaning of Fuel Strainer

If dust or dirt accumulates in the fuel strainer, the fuel flow will become insufficient. Periodically clean it.

Important

Clean the fuel strainer in a clean location, free of dust and dirt.

- 1. Close the fuel cock of the fuel filter.
- 2. Remove the strainer cup from the fuel cock.
- 3. Clean the filter and the inside of the strainer cup with a solvent, such as hardly flammable kerosene.
- 4. Dry with compressed air.



Cleaning of Fuel Strainer_001

	5 · · · · · _ · ·
1	Filter
2	O ring
3	Strainer cup

Important

During installation, prevent contamination with dirt or dust.

If the fuel is contaminated with dirt, dust, etc., the fuel flow will become insufficient.

- 5. Correctly install all parts in their original positions.
- 6. Fill up the fuel tank with fuel, and then open the fuel cock.
- 7. Make sure that there is no fuel leakage.

Inspections Page 4-7

Oil Leakage

Inspection of Oil Leakage

After approximately 50 hours of operation, some joints may be loosened and oil and grease may leak.

Be sure to retighten the parts.

Check the bottom of the machine for oil and grease leakage.

Grass Catcher

Inspection of Grass Catcher

The grass catcher may no longer correctly collect grass clippings due to its wear, damage, deformation, etc., caused by frequent use.

- 1. Make sure that there is no wear or deterioration of the grass catcher.
- 2. Make sure that there is no damage to the grass catcher.
- 3. Make sure that there is no interference to moving parts due to deformation of the grass catcher.

Page 4-8 Inspections

Tightening Torques

Important

Refer to the Tightening Torque table. Note that the Baroness product warranty may not apply to defects caused by incorrect or overtorque tightening, etc.

Standard Tightening Torques

Bolts and Nuts

Important

A number of bolts are used in each part of this machine.

Be sure to re-tighten the bolts and nuts, because they may be loosened at the earlier stage of the use.

As to the bolts and nuts without any special instruction, tighten them in appropriate tightening torque with proper tool.

Too much tightening may cause the looseness or damage of the screw.

The strength of tightening is determined by types of screws, strength, the friction of thread face or base face and others.

The table below is for the galvanized or parkerized bolts.

In case that the strength of internal thread is weak, it is not applied.

Do not use rusty or sand attached "screw."

Otherwise, it may cause insufficient tightening even if you apply the specified tightening torque.

The friction of the screw face becomes higher and the tightening torque is canceled out by the friction, therefore sufficient tightening cannot be applied.

If "screw" is wet by water or oil, do not tighten it with normal tightening torque.

If the screw is wet, the torque coefficient will get smaller and it may result in too much tightening.

Too much tightening may cause looseness by the screw stretched or result in damage.

Do not use a bolt experienced too much burden.

Using the impact wrench requires the skill.

Do exercise as much as possible for steady tightening.

Tightening Torques Page 4-9

	General bolt					
	Strength classification 4.8					
Nominal diameter	M 4 T tib3yb-001					
	N-m	kgf-cm	lb-in			
M5	3 - 5	30.59 - 50.99	26.55 - 44.26			
M6	7 - 9	71.38 - 91.77	61.96 - 79.66			
M8	14 - 19	142.76 - 193.74	123.91 - 168.17			
M10	29 - 38	295.71 - 387.49	256.68 - 336.34			
M12	52 - 67	530.24 - 683.20	460.25 - 593.02			
M14	70 - 94	713.79 - 958.52	619.57 - 831.99			
M16	88 - 112	897.34 - 1142.06	778.89 - 991.31			
M18	116 - 144	1,182.85 - 1,468.37	1,026.72 - 1,274.54			
M20	147 - 183	1,498.96 - 1,866.05	1,301.10 - 1,619.73			
M22	295	3,008.12	2,611.05			
M24	370	3,772.89	3,274.87			
M27	550	5,608.35	4,868.05			
M30	740	7,545.78	6,549.74			

			Heat-tr	eated bolt			
	Strength classification 8.8				Strength classification 10.9		
Nominal diameter	8 8 T (8.8) tib3yb-002			11 (11T) (10.9) tib3yb-003			
	N-m	kgf-cm	lb-in	N-m	kgf-cm	lb-in	
M5	5 - 7	50.99 - 71.38	44.26 - 61.96	7 - 10	71.38 - 101.97	61.96 - 88.51	
M6	8 - 11	81.58 - 112.17	70.81 - 97.36	14 - 18	142.76 - 183.55	123.91 - 159.32	
M8	23 - 29	234.53 - 295.71	203.57 - 256.68	28 - 38	285.52 - 387.49	247.83 - 336.34	
M10	45 - 57	458.87 - 581.23	398.30 - 504.51	58 - 76	591.43 - 774.97	513.36 - 672.68	
M12	67 - 85	683.20 - 866.75	593.02 - 752.34	104 - 134	1,060.49 - 1,366.40	920.50 - 1186.03	
M14	106 - 134	1,080.88 - 1,366.40	938.21 - 1,186.03	140 - 188	1,427.58 - 1,917.04	1,239.14 - 1,663.99	
M16	152 - 188	1,549.94 - 1,917.04	1,345.35 - 1,663.99	210 - 260	2,141.37 - 2,651.22	1,858.71 - 2,301.26	
M18	200 - 240	2,039.40 - 2,447.28	1,770.20 - 2,124.24	280 - 340	2,855.16 - 3,466.98	2,478.28 - 3,009.34	
M20	245 - 295	2,498.27 - 3,008.12	2,168.50 - 2,611.05	370 - 450	3,772.89 - 4,588.65	3,274.87 - 3,982.95	
M22	-	-	-	530	5,404.41	4,691.03	
M24	-	-	-	670	6,831.99	5,930.17	
M27	-	-	-	1,000	10,197.00	8,851.00	
M30	-	-	-	1,340	14,628.78	11,860.34	

Note:

The same values are applied to "fine screw thread."

Page 4-10 Tightening Torques

Principal Tightening Torques

Tightening Torque by Model

LM18GC/LM56GC/LM66GC/LM66TC

Tighten the following bolts and nuts at the torque specified in the table.

For thread locking adhesive, apply a middle strength thread locker (ThreeBond 1322 or equivalent anaerobic sealant).

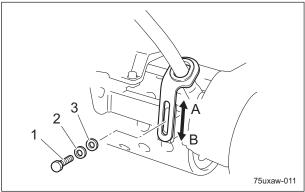
Loostica	Code	Part name	Т	Thread locking		
Location			N-m	kgf-cm	lb-in	adhesive
Bedknife	K0071000222	SCREW, HT FLAT HEAD M6-12	7 - 9	71.38 - 91.77	61.96 - 79.66	-
Reel shaft	K0185160002	NUT, LEFT-HANDED P1.5 M16-3	36	367.09	318.64	-
Reel shaft (Groomer model)	LM56G1204Z0	GEAR, 20-TEETH	36	367.09	318.64	-
Front roller	K6083000042	PIN, STEPPED M15-19	29 - 38	295.71 - 387.49	256.68 - 336.34	-
Drum wheel	K001A080251	BOLT, WITH HEX. HOLE M8-25	To keep the fitting from coming off		-	
Handle	K0010100252	BOLT, HT M10-25	29 - 38	295.71 - 387.49	256.68 - 336.34	-
Carana	K0160000602	NUT, SPECIAL P1 M17 WITH M4	5 - 10	50.99 - 101.97	44.26 - 88.51	-
Groomer	K6083000143	PIN, STEPPED FOR FIXING (R) CASE	6	61.18	53.11	-

Tightening Torques Page 4-11

Adjustment before Work

Adjustment of Handle

The height of the handle can be adjusted according to the operator's working position. Move the handle adjusters supporting the handle up or down and fix them with the bolts.



Adjustment of Handle_001

1	Bolt	
2	Conical spring washer	
3	Washer	
Α	High	
В	Low	

Adjustment of IGCA (Independent Grass Catcher Arm)

Note:

Depending on the specifications, this function may not be available.

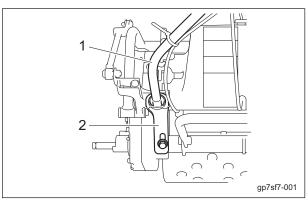
Important

When adjusting the height of handle, adjust IGCA.

- 1. Remove the traveling tires.
- 2. Flip up the stand.
- 3. Install the grass catcher. Adjustment of the link rod:

Important

Adjust the handle pipe so that it can locate at the center of the handle guide.



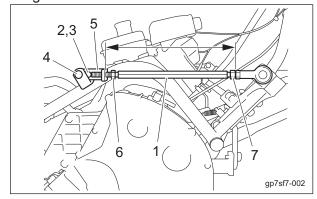
Adjustment of IGCA (Independent Grass Catcher Arm) 001

1	Handle pipe	
2	Handle guide	

Important

Adjust the right and left link rods so that they will be as long as each other.

- 1. Remove the snap pin and washer and then remove the flat head pin.
- Loosen the nut A and turn the L-shape bracket to adjust the length of the link rod. When raising the handle, shorten the link rod
 - When lowering the handle, lengthen the link rod
- 3. Attach the flat head pin, washer and snap pin to the forefront of slotted hole of the L-shape bracket.
- 4. Make sure that the handle pipe locates at the center of the handle guide.
- 5. Tighten the nut A.



Adjustment of IGCA (Independent Grass Catcher Arm)_002

1	Link rod
2	Snap pin
3	Washer
4	Flat head pin
5	L-shape bracket
6	Nut A
7	Nut B

6. Repeat the same process for adjustment of the opposite link rod.

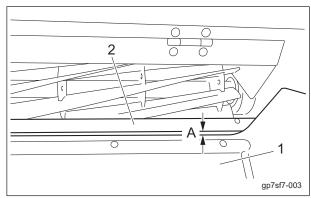
Adjustment of gap for the grass catcher:

Important

Adjust so that the grass catcher will not overlap with the stay.

Important

Adjust so that the small gap between the grass catcher and the stay will be even.



Adjustment of IGCA (Independent Grass Catcher Arm)_003

1	Grass catcher
2	Stay
Α	Gap

- 1. Loosen the right and left locknuts.
- 2. Remove the right and left clip pin.

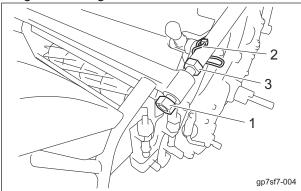
Important

The shaft has a through-hole into which the clip pin will be inserted.

To adjust length always turn the shaft 180 degrees to keep holes aligned.

3. Turn the right and left shafts to adjust so that the gap between the grass catcher and the stay will be 1.0 mm (0.039 in).

4. Tighten the right and left locknuts.



Adjustment of IGCA (Independent Grass Catcher Arm)_004

	· · ·
1	Locknut
2	Clip pin
3	Shaft

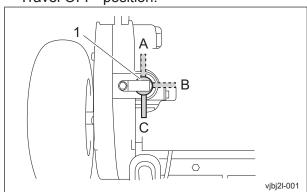
Adjustment of Blade Engagement



When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands.

Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

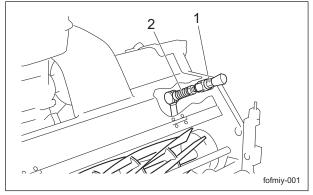
- 1. Stop the engine.
- 2. Set the traveling/working selector lever to the "Travel OFF" position.



Adjustment of Blade Engagement_001

1	Traveling/Working selector lever
Α	Reel ON
В	Travel ON
С	Travel OFF

- 3. With the cutter adjustment nut, adjust the engagement between the reel cutter (cutting cylinder) and the bed knife (bottom blade) so that newspaper (one sheet) will be cleanly cut by the edge of both blades when the blades in their entirety come slightly into contact with each other.
- 4. Insert a strip of newspaper into the space between the reel cutter (cutting cylinder) and the bed knife (bottom blade) at an angle of 90 degrees. Then, rotate the reel cutter (cutting cylinder) counter-clockwise (when you face the mower unit from the left) to check the sharpness of the blades. Check the sharpness of the entire range (at three or four points) of the reel cutter (cutting cylinder).
 - If there is a gap between the blade edges: Loosen (rotate counter-clockwise) the cutter adjustment nut to apply more contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
 - If the reel cutter (cutting cylinder) is too tight to turn:
 Tighten (rotate clockwise) the cutter adjustment nut to reduce the contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
 - If the blades still cannot cut well:
 Perform back lapping of the reel cutter (cutting cylinder).



Adjustment of Blade Engagement_002

1	Cutter adjustment nut
2	Spring

Adjustment of Cutting Height

Adjust the cutting height to fit your cutting work.

Important

This applies the set cutting height that differs from the actual cutting height.

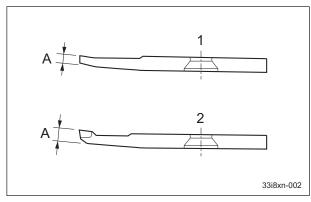
Cutting Height and Blade Thickness of Bed Knife (Bottom Blade)

Important

The recommended minimum cutting heights are based on those of common greens. These values are affected by the conditions of the greens and the machine specifications. If the green undulation is hard, set it a little bit higher in order not to damage the green surface.

The recommended minimum cutting height according to the blade thickness of the bed knife (bottom blade) is as indicated below.

		Thickness of	Rough minimum					
Type	Blade type	blade	cutting height	Code	Part name	Remarks	3	
		(mm/inch)	(mm/inch)					
			2.5/0.000	K2511000490	1 Bed knife 22			
		1.0/0.039	2.5/0.098	K2511000510	1 Bed knife 22-44.5	Offset 2.5 mm		
		4 5/0 050	3.0/0.118	K2511000270	1.5 Bed knife 55G			
	Standard	1.5/0.059	3.0/0.118	K2511000390	1.5 Bed knife 55G-47	Offset 5 mm		
1.14500	blade	0.0/0.070	0.5/0.400	K2511000280	2 Bed knife 55G			
LM56G C		2.0/0.079	3.5/0.138	K2511000350	2 Bed knife 55G-47	Offset 5 mm		
		0.5/0.000	4.0/0.457	K2511000050	2.5 Bed knife 55G			
		2.5/0.098	4.0/0.157	K2511000240	2.5 Bed knife 55G-47	Offset 5 mm		
	High-speed- steel-tipped blade	3.0/0.118	4.5/0.177	K2510000060	3 Bed knife 62.5-559		Standard	
							equipment	
		5.0/0.197	7.0/0.276	K2510000160	5 Bed knife 62.5-559			
	Standard blade	2.0/0.079	3.0/0.118	K2511000310	1.5 Bed knife 65G			
				K2511000400	1.5 Bed knife 65G-47	Offset 5 mm		
			79 3.5/0.138	K2511000300	2 Bed knife 65G			
LM66G			lade 2.0/0.079 3.5/0.1	3.5/0.136	K2511000360	2 Bed knife 65G-47	Offset 5 mm	
C		0.5/0.000	2 7/2 222	4 0/0 457	K2511000200	2.5 Bed knife 65G		
C		2.5/0.098	5/0.098 4.0/0.157	K2511000250	2.5 Bed knife 65G-47	Offset 5 mm		
	High-speed-	3.0/0.118	4.5/0.177	K2510000150	3 Bed knife 62.5-648.4		Standard	
	steel-tipped						equipment	
	blade	5.0/0.197	7.0/0.276	K2510000170	5 Bed knife 62.5-648.4			
LMCCT	High-speed- steel-tipped blade	3.0/0.118	4.5/0.177	K2510000150	3 Bed knife 62.5-648.4			
IC I		5.0/0.197	7.0/0.276	K2510000170	5 Bed knife 62.5-648.4		Standard equipment	



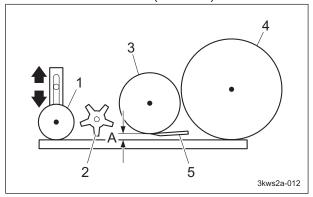
Cutting Height and Blade Thickness of Bed Knife (Bottom Blade)_001

1	Standard blade
2	High-speed-steel-tipped blade
А	Thickness of blade

Adjustment of Front Roller

You can adjust the cutting height by moving the front roller up or down.

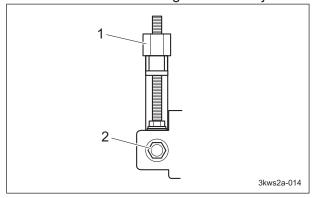
The cutting height can be adjusted to the maximum of 29.0 mm (1.141 in).



Adjustment of Front Roller_001

1	Front roller
2	Front groomer
3	Reel cutter (Cutting cylinder)
4	Drum
5	Bed knife (bottom blade)
Α	Cutting height

- Set the slide caliper to the required cutting height, adjust the position of the bottom of the head of the small screw for cutting height setup in the cutting height gauge, and then securely lock it with a fly nut.
- 2. Loosen the nut securing the roller adjuster.

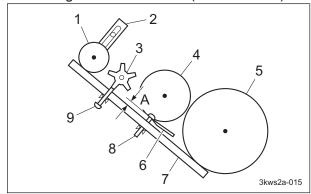


Adjustment of Front Roller_002

1	Roller adjuster
2	Nut

3. Position the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.

4. Move the front roller up or down with the roller adjuster to position the front roller so that there is no gap between the bottom of the head of the small screw for cutting height setup in the cutting height gauge and the edge of the bed knife (bottom blade).



Adjustment of Front Roller_003

1	Front roller
2	Roller bracket
3	Front groomer
4	Reel cutter (Cutting cylinder)
5	Drum
6	Bed knife (bottom blade)
7	Cutting height gauge
8	Small screw for cutting height setup
9	Small screw for groomer setup
Α	Cutting height

- Follow the same steps to adjust the cutting height on the opposite side.
- 6. Tighten the nuts that secure the left and right roller brackets to secure them firmly.
- 7. Again, make sure that the cutting height is at the required position by positioning the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.

Adjustment of Groomer

Note:

Depending on the specifications, this function may not be available.

Important

If the front groomer is being used, adjust it according to the conditions of the greens.

Important

Set the grooming height more than 0.0 mm (0.00 in) from the ground.

Allowing the front groomer to go into the ground may damage the groomer shaft.

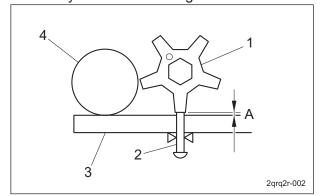
Important

If the front groomer goes in too deep, the engine and drive components may become overloaded, which may cause malfunction and damage.

Important

When using the grooming brush, adjust it to the same height as the cutting height. If the grooming brush is too low, it may quickly become damaged.

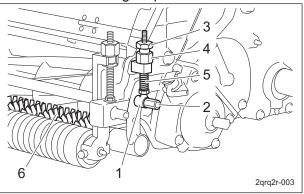
1. Set the slide caliper to the required groomer height, adjust the tip of the groomer setting screw on the cutting height gauge, and then securely lock it with a wing nut.



Adjustment of Groomer_001

_	
1	Dethatching blade
2	Small screw for groomer setup
3	Cutting height gauge
4	Front roller
Α	Groomer height

- 2. Loosen the nuts securing the left and right groomer adjustment screws.
- 3. Loosen left and right special nut A.



Adjustment of Groomer_002

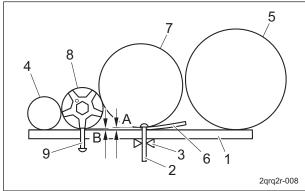
1	Groomer adjustment screw
2	Nut
3	Special nut A
4	Special nut B
5	Spring
6	Front groomer

4. Position the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.

Important

Adjust so that the small screw for groomer setup contacts the dethatching blades.

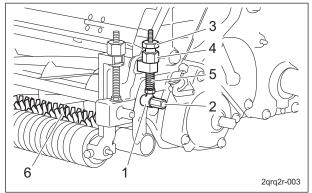
5. Adjust special nut B up or down so that the left and right sides are parallel.



Adjustment of Groomer_003

1	Cutting height gauge
2	Small screw for cutting height setup
3	Fly nut
4	Front roller
5	Drum
6	Bed knife (bottom blade)
7	Reel cutter (Cutting cylinder)
8	Dethatching blade
9	Small screw for groomer setup
Α	Cutting height
В	Groomer height
6 7 8 9 A	Bed knife (bottom blade) Reel cutter (Cutting cylinder) Dethatching blade Small screw for groomer setup Cutting height

- 6. Follow the same steps to adjust the groomer height on the opposite side.
- 7. Firmly tighten the nuts that secure the left and right groomer adjustment screws.
- 8. Tighten left and right special nut A.
- Again, make sure that the groomer height is at the required position by positioning the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.



Adjustment of Groomer_004

1	Groomer adjustment screw
2	Nut
3	Special nut A
4	Special nut B
5	Spring
6	Front groomer

Note:

In the case that the front groomer is not used, you do not have to change the set groomer height.

Loosen the nuts fixing the right and left groomer adjustment screws, lift the groomer and tighten the right and left nuts to raise the front groomer so that it cannot contact the lawn.

Next time the groomer is used, loosen the right and left nuts, lower the groomer and tighten the nuts so that it can return to the groomer height set previously.

Procedure to Start/Stop Engine

Start/Stop of Engine

Procedure to Start Engine

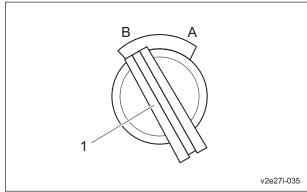


Before starting the engine, make sure that there are no other people or obstacles around the machine.

▲ Caution

Make sure that the engine clutch cover is installed in the prescribed position.

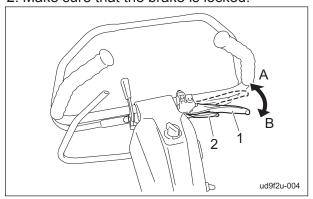
1. Make sure that the engine switch is in the "OFF" position.



Procedure to Start Engine_001

1	Engine switch
Α	ON
В	OFF

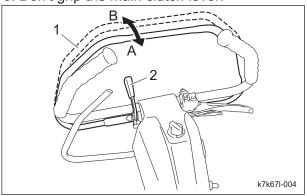
2. Make sure that the brake is locked.



Procedure to Start Engine_002

1	Brake lever
2	Lock lever
Α	Lock
В	Unlock

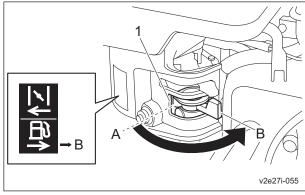
3. Don't grip the main clutch lever.



Procedure to Start Engine_003

1	Main clutch lever
2	Clutch lock lever
Α	ON
В	OFF

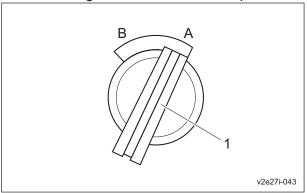
4. Set the fuel cock to the "Open" position.



Procedure to Start Engine_004

1	Fuel cock	
А	Close	
В	Open	

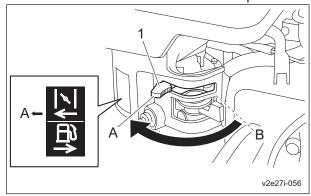
5. Set the engine switch to the "ON" position.



Procedure to Start Engine_005

1	Engine switch
Α	ON
В	OFF

6. Set the choke lever to the "Close" position.



Procedure to Start Engine_006

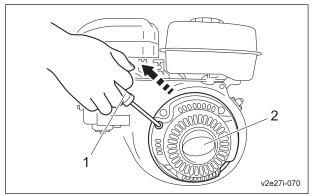
1	Choke lever
Α	Close
В	Open

Important

Return the starter grip slowly to its original position after the engine starts.

Do not let go of the pulled starter grip since it may cause damage to the machine.

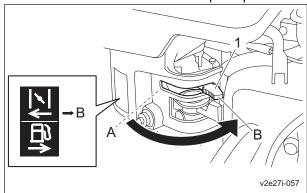
7. Pull the starter grip swiftly, and the engine will start.



Procedure to Start Engine_007

1	Starter grip
2	Recoil starter

8. Set the choke lever to the "Open" position.

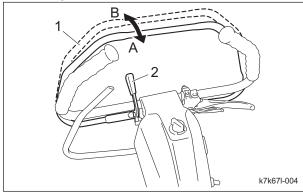


Procedure to Start Engine_008

1	Choke lever
Α	Close
В	Open

Procedure to Stop Engine

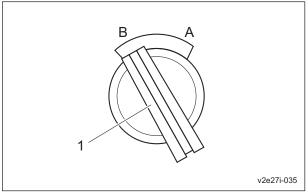
1. Don't grip the main clutch lever.



Procedure to Stop Engine_001

1	Main clutch lever
2	Clutch lock lever
Α	ON
В	OFF

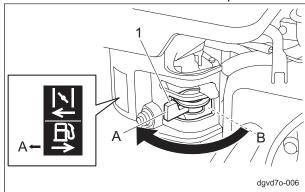
2. Set the engine switch to the "OFF" position.



Procedure to Stop Engine_002

1	Engine switch
Α	ON
В	OFF

- 3. Make sure that the brake is locked.
- 4. Set the fuel cock to the "Close" position.



Procedure to Stop Engine 003

1	Fuel cock
Α	Close
В	Open

Operation Method

Cautions before Leaving The Machine



Park the machine on a flat place. Do not park the machine on a slope.

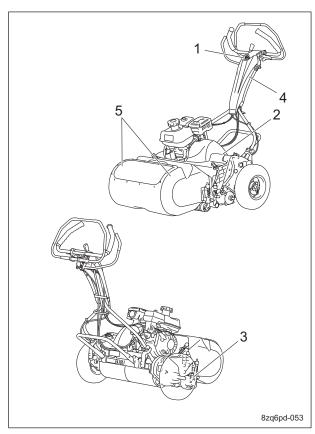


Check that the engine has stopped.



Make sure that the brake lever is locked.

Positions of Operation Decals



Positions of Operation Decals_001

1	Decal, engine switch
2	Decal, clutch
3	Decal, groomer indication
4	Decal, light switch
5	Sticker, alignment 10300

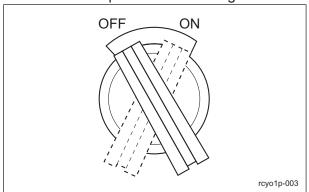
Operation Method Page 4-21

Description of Operation Decals

Engine Switch Mark

-ENGINE SWITCH MARK

It illustrates the positions of the engine switch.

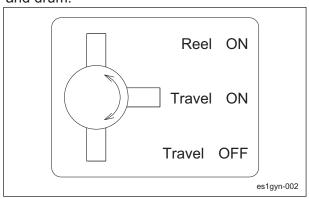


Engine Switch Mark_001

Clutch Decal

K4203001110 STICKER, CLUTCH

This indicates operating positions (traveling/working) for the reel cutter (cutting cylinder) and drum.



Clutch Decal_001

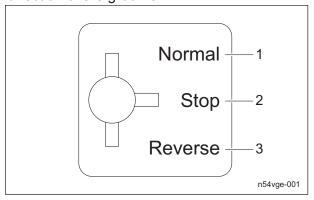
Groomer Indication Mark

Note:

Depending on the specifications, this function may not be available.

K4203001120

DECAL, GROOMER INDICATION
It illustrates the changeover of rotational direction of the groomer.



Groomer Indication Mark_001

1	Normal rotation
2	Stop
3	Reverse rotation

Light Switch Mark

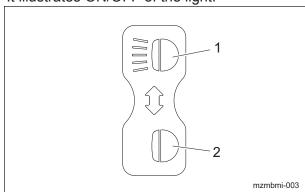
Note:

Depending on the specifications, this function may not be available.

K4203001610

DECAL, LIGHT SWITCH

It illustrates ON/OFF of the light.



Light Switch Mark_001

-	_
1	ON
2	OFF

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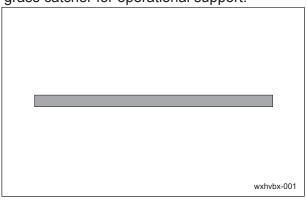
Red Alignment Mark 10300

Note:

Depending on the specifications, this function may not be available.

K4209001230

DECAL, ALIGNMENT 10300 (SET OF 2PCS) Affix the decals in indicative positions on the grass catcher for operational support.



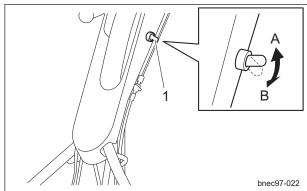
Red Alignment Mark 10300_001

Light Switch

Note:

Depending on the specifications, this function may not be available.

The light switch is located in the handle panel. Flip up the switch to turn on the light, and down to turn off.

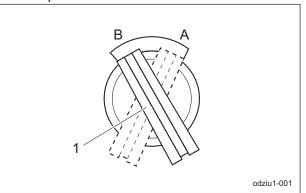


Light Switch_001

1	Light switch
Α	ON
В	OFF

Engine Switch

The engine switch is located in the handle. To start the engine, set the engine switch to the "ON" position, and to stop it, set to the "OFF" position.



Engine Switch_001

1	Engine switch
Α	ON
В	OFF

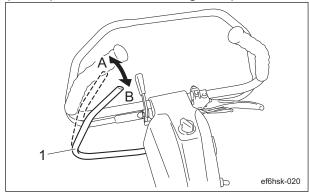
Throttle Lever

Note:

Depending on the specifications, this function may not be available.

The throttle lever is located in the handle and enables you to adjust the engine rpm.

Grip the throttle lever tightly to move it toward "High speed" position for increasing the engine rpm, and loosen grip to move it toward "Low speed" position for decreasing the rpm.



Throttle Lever_001

1	Throttle lever	
Α	High speed	
В	Low speed	

Operation Method Page 4-23

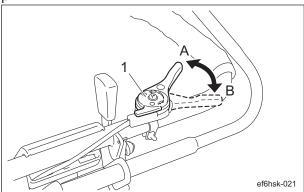
Throttle Lever

Note:

Depending on the specifications, this function may not be available.

The throttle lever is located in the handle and enables you to adjust the engine rpm.

Move the throttle knob toward the "High speed" position to increase the engine rpm, and toward the "Low speed" position to reduce the rpm.



Throttle Lever_001

1	Throttle lever
Α	High speed
В	Low speed

Brake Lever



Avoid quick operation.

Carefully and slowly operate the machine.

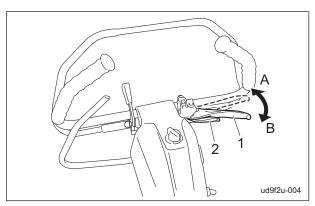
The brake lever is located in the handle.

Grip the brake lever to activate braking and the travel of the machine is stopped.

Grip the lock lever while gripping the brake lever to lock the brake lever with braking applied.

Grip the locked brake lever to release locking. Note:

Lock the brake lever to apply Parking Brake.



Brake Lever_001

1	Brake lever
2	Lock lever
Α	Lock
В	Unlock

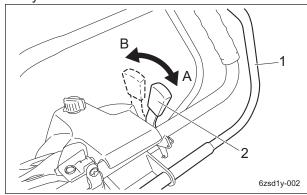
Clutch Lock Lever

The clutch lock lever is located in the handle.

Important

While the main clutch is in the "OFF" position, the safety lock is activated.

Grip the main clutch lever while tilting the clutch lock lever to "Unlock" side to unlock the safety lock.



Clutch Lock Lever_001

	_		
1	Main clutch lever		
2	Clutch lock lever		
Α	Lock		
В	Unlock		

Page 4-24 Operation Method

Main Clutch Lever



▲ Caution

Avoid quick operation.

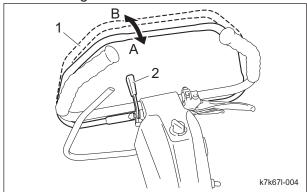
Carefully and slowly operate the machine.

Important

The main clutch is not activated unless the safety lock released.

The main clutch lever is located in the handle. Unlock the safety lock and then grip the main clutch lever to traveling forward with rotating the reel cutter.

Release the main clutch lever from the hands to stop the machine traveling and the reel cutter rotating.



Main Clutch Lever 001

_	
1	Main clutch lever
2	Clutch lock lever
Α	ON
В	OFF

Traveling/Working Selector Lever



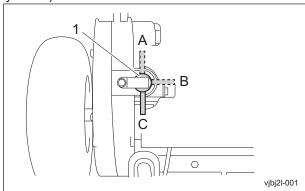
A Caution

This lever should be operated while the main clutch lever is set to the disengaged position, and adjusted to the position suitable for your work.

The traveling/working selector lever is located on top of the left frame and has three positions. When the lever is set to the "Reel ON" position, the drum and reel cutter (cutting cylinder) operate and cutting is performed.

When the lever is set to the "Travel ON" position, only the drum operates and the machine travels.

When the lever is set to the "Travel OFF" position, both the drum and reel cutter (cutting cylinder) are not driven.



Traveling/Working Selector Lever_001

1	Traveling/Working selector lever
Α	Reel ON
В	Travel ON
С	Travel OFF

Operation Method Page 4-25

Air Adjusting Plate



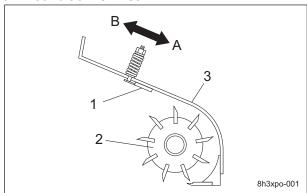
The air adjusting plate should be operated while the engine rotation is stopped, and adjusted to the position suitable for your work.

The air adjusting plate is attached on the reel cover.

The dispersing angle of clippings can be adjusted by changing the position of the air adjusting plate.

Adjust according to the lawn conditions. The air adjusting plate can be moved closer to the reel cutter (cutting cylinder) when the lawn condition is "dry".

The air adjusting plate can be moved away from the reel cutter (cutting cylinder) when the lawn condition is "wet".



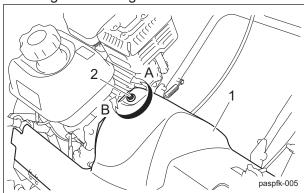
Air Adjusting Plate 001

	3
1	Air adjusting plate
2	Reel cutter (Cutting cylinder)
3	Reel cover
Α	Close
В	Away

Engine Clutch Cover

The engine clutch cover is located on the left side of the engine and covers the engine clutch.

Open or close the engine clutch cover by removing or installing the lock bolt.



Engine Clutch Cover_001

1	Engine clutch cover
2	Lock bolt
Α	Loosen
В	Tighten

Groomer Clutch Lever

Note:

Depending on the specifications, this function may not be available.



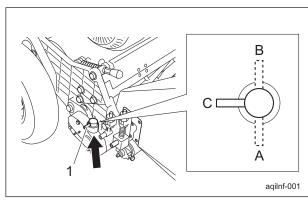
This lever should be operated while the main clutch lever is set to the disengaged position, and adjusted to the position suitable for your work.

The groomer clutch lever is located on the upper side of the right frame and has three positions.

When the lever is set to the "Normal " position, the groomer rotates in the same direction as the reel cutter (cutting cylinder).

When the lever is set to the "Reverse" position, the groomer rotates in the opposite direction as the reel cutter (cutting cylinder). When the lever is set to the "Stop" position, the groomer will not rotate.

Page 4-26 Operation Method



Groomer Clutch Lever_001

1	Groomer clutch lever
Α	Normal
В	Reverse
С	Stop

IGCA (Independent Grass Catcher Arm)

Note:

Depending on the specifications, this function may not be available.

(IGCA can be installed onto the LM18GC/LM56GC.)

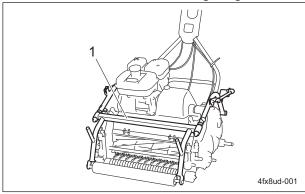
IGCA is located above the mower.

The IGCA is a mechanism that prevents the mowing attitude of the mower from changing, even when there is an increase in the volume of clippings entering the grass catcher.

It eliminates as much as possible the transfer of rough handle movements causing changes in the mower's attitude.

Since the mower is stabilized while the lawn is mowed, even if the handle is treated roughly, the cutting height does not change from the start of mowing the green to the end.

Stable lawn mowing work can be performed regardless of the operator's skill level and machine proficiency level, enabling all greens to be mowed at a uniform cutting height.



IGCA (Independent Grass Catcher Arm)_001

4	1004
	IGCA

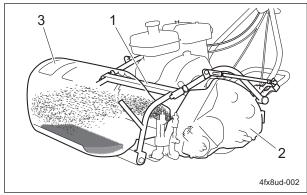
Issue 1:

The cutting height fluctuates due to the upand-down movements of the mower caused by the weight of the grass catcher.

Solution:

The mower and grass catcher operate independently.

Therefore, the mowing attitude of the mower is not affected, even when the grass catcher becomes heavier from the added weight of grass, thatch, sand, etc. The operator can mow at a uniform cutting height from the start of mowing the green to the end.



IGCA (Independent Grass Catcher Arm)_002

1	IGCA
2	Mower
3	Grass catcher

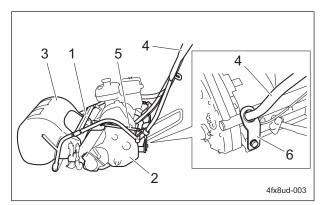
Issue 2:

The cutting height is uneven due to the upand-down movements of the mower caused by the operator's handle movements.

Solution:

The grass catcher and handle are linked, eliminating as much as possible the transfer of rough handle movements causing changes in the mower's attitude. By adjusting the link rods, the handle can remain centered in the handle adjuster, and uniform mower contact pressure can be achieved.

Operation Method Page 4-27



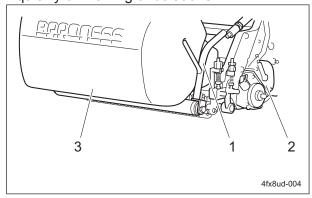
IGCA (Independent Grass Catcher Arm)_003

1	IGCA
2	Mower
3	Grass catcher
4	Handle
5	Link rod
6	Handle adjuster

Effect 1:

Regardless of skill level, any operator can mow at a uniform cutting height, as long as the handle can be adjusted within the range of the hole in the handle adjuster.

This is effective when accelerating very quickly or mowing undulations.

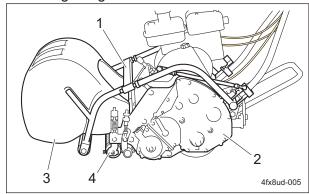


IGCA (Independent Grass Catcher Arm)_004

1	IGCA
2	Mower
3	Grass catcher

Effect 2:

Since the load of the grass catcher does not affect the front roller, it is possible to reduce sinking (gouging or digging) caused by the front roller touching the ground when entering the green.



IGCA (Independent Grass Catcher Arm)_005

1	IGCA
2	Mower
3	Grass catcher
4	Front roller

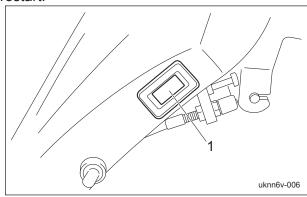
Instruments

Hour Meter

The hour meter indicates the accumulated operation time of the engine.

The accumulated time can not be manually reset.

When the accumulated time exceeds 99999 hours, the display automatically shows zero for restart.



Hour Meter_001

	-
1	Hour meter

Page 4-28 Instruments

Travel of Machine

Traveling Procedure



▲ Caution

Under any circumstances drive the machine at such a speed that you can stop it immediately for emergencies.



A Caution

Do not start to move or stop the machine abruptly.

- 1. Install traveling tires.
- 2. Flip up the stand.
- 3. Set the traveling/working selector lever to "Travel ON" position of.
- 4. Start the engine.
- 5. Release the brake.
- 6. Release the safety lock and grip the main clutch lever slowly.
- 7. The machine starts traveling.

Cutting Work

Cutting Work



A Warning

Do not operate on a steep slope.



A Caution

Do not start to move or stop the machine abruptly.



A Caution

Be sure to operate at an appropriate speed for the mowing site.

For mowing on an undulated surface, mow with lowered cutting speed.

Important

Be sure to attach the grass catcher.

Discharge the clippings at the right time during operation.

- 1. Remove the traveling tires.
- 2. Flip up the stand.
- 3. Install the grass catcher.

- 4. Move the air adjusting plate to the desired position.
- 5. Move the groomer clutch lever to the desired position.
- 6. Make the traveling/working selector lever to the "Reel ON" position.
- 7. Start the engine.
- 8. Release the brake.
- 9. Release the safety lock and grip the main clutch lever slowly to start mowing.

Operate at about 3,000 rpm.

Travel of Machine Page 4-29

Removing/Installing Traveling Tires

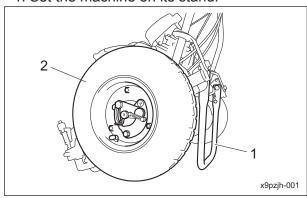
Important

Mow with the traveling tires removed.

Use the traveling tires to move the machine by self-propelling.

Removal of traveling tires:

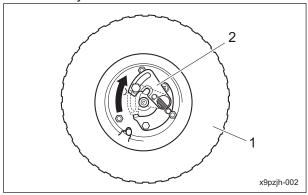
1. Set the machine on its stand.



Removing/Installing Traveling Tires_001

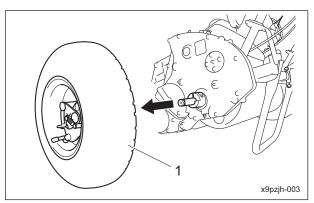
1	Stand
2	Traveling tires

2. While sliding the lever of the wheel mounting plate and holding it in the released position, pull the traveling tire toward you to remove it.



Removing/Installing Traveling Tires_002

1	Traveling tires
2	Wheel mounting plate



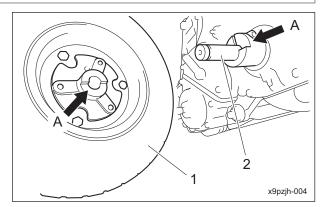
Removing/Installing Traveling Tires_003

1 Traveling tires

 Follow the same steps to remove the traveling tire on the opposite side.
 Installation of traveling tires:

Important

The drum shaft and traveling tire have depressions and projections that fit together. Match the shapes during installation.



Removing/Installing Traveling Tires_004

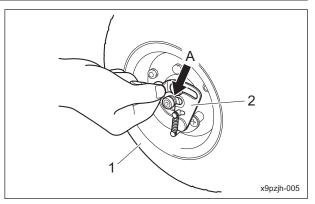
1	Traveling tires
2	Drum shaft
_	Depressions and projections that fit
A	together

Page 4-30 Cutting Work

Important

Make sure that the wheel mounting plate fits into the groove in the drum shaft.

If they do not engage, the wheel may fall off.



Removing/Installing Traveling Tires_005

1	Traveling tires
2	Wheel mounting plate
Α	Groove

For installing the traveling tires, reverse the removing procedure.

Removing/Installing Grass Catcher



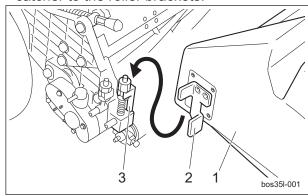
Stop the engine before removing / installing the grass catcher.

Removing Grass Catcher:

Lift up the grass catcher to detach the right & left latches of it from the roller brackets.

Installing Grass Catcher:

Attach the right & left latches of the grass catcher to the roller brackets.



Removing/Installing Grass Catcher_001

1	Basket
2	Latch
3	Roller bracket

Transporting

Transporting Procedure



▲ Caution

When loading and unloading the machine, wear non-slip shoes and travel slowly.

Important

When securing the machine with a rope, do not tie the rope to the engine.

Important

When securing the machine with a rope, be careful not to bend any wires.

Be extremely careful when loading the machine into a truck or a trailer.

Before loading or unloading, stop the truck or trailer on a level surface in a safe location, apply the parking brake, stop the engine, and then chock the wheels.

Before loading into a truck or a trailer for transportation, apply the parking brake of the machine, stop its engine, and then secure the machine with rope or any other sufficiently strong restraining device.

When using a loading ramp, select one of sufficient length, width and strength, and that will not allow the machine to slip off.

Storage

Before Long-Term Storage

- · Remove any dirt, grass, debris, or oil stains completely.
- · Supply oil and apply grease to appropriate parts.

Transporting Page 4-31

Page 4-32 Storage

Maintenance Precautions P	'age	5-2
Position of Mower during MaintenanceP	Page	5-2
Maintenance ScheduleP	age	5-3
Adjusted ValuesF	age	5-5
GreasingP	age	5-6
About GreasingF Greasing PointsF	•	
LubricationP	'age	5-8
About LubricationF Lubricating PointsF	•	
Maintenance WorkP	'age	5-9
Adjustment of Cutter Adjustment Spring	Page 5 age 5	5-9 -10 -12 -13 -15 -20 -21 -22 -22
Replacement of Engine OilPa Troubleshooting Procedures of	age 5	-24
Aftercut Appearance Pa	ige 5	-25
Scalping	age 5 age 5 age 5	-25 -26 -27

Maintenance Precautions



▲ Caution

First, learn well the maintenance operations you plan to perform.

Important

Use tools appropriate for each maintenance operation.

Important

For the safe and best performance of your machine, use Baroness genuine parts for replacement and accessories.

Please note that our product warranty may be void if you use non-genuine parts for replacement or accessories.

Position of Mower during Maintenance

Important

If the mower handle is left leaned on the ground for a long time during maintenance engine oil may enter the engine combustion chamber and cause the engine to run improperly.

Be careful not to keep this position long and ensure sufficient time for any oil to drain back by returning to upright position for ten minutes before starting.

Maintenance Schedule

LM18GC/LM56GC/LM66GC/LM66TC

Follow the maintenance schedule below.

O - - Inspect, adjust, supply, clean

• • • Replace (first time)

 $\triangle \cdot \cdot \cdot$ Replace

		1 topiaoo													
		Maintenance Item		After Work	Every 10 hrs.	Every 20 hrs.	Every 25 hrs.	Every 50 hrs.	Every 100 hrs.	Every 300 hrs.	Every 500 hrs.	Every year	Every 2 years	When Required	Remarks
	*2	Check tightening bolts and nuts	0												
	*2	Check fuel level	0												
		Check fuel and oil leaks	0												
	*2	Check engine oil level	0												
	*2	Check air cleaner		0											
		Clean engine and circumference of the muffler cover		0											
	*2	Change engine oil							Δ						20 hours first change
	*2	Check spark plug							0						
	*2	Clean spark arrester							0						
	*2	Clean sediment cup							0						
	*1	Clean fuel tank & filter							0						
Engine	*1	Check idling speed								0		0			Check every 300 hours or every year whichever comes earlier
Ē	*1	Check valve clearance								0		0			Check every 300 hours or every year whichever comes earlier
	*2	Replace air cleaner								Δ		Δ			Paper filter element: Replace every 300 hours or every year whichever comes earlier Foam filter element: Replace as necessary
	*2	Replace spark plug								Δ		Δ			Replace every 300 hours or every year whichever comes earlier
	*1	Remove carbon in combustion chamber									0				
	*1	Check fuel hoses and clamp bands											0	Δ	

Maintenance Schedule Page 5-3

	Maintenance Item		After Work	Every 10 hrs.	Every 20 hrs.	Every 25 hrs.	Every 50 hrs.	Every 100 hrs.	Every 300 hrs.	Every 500 hrs.	Every year	Every 2 years	When Required	Remarks
	Check tire pressures and condition	0												
	Check damaged parts	0												
	Check tightening bolts and nuts	0												
	Check main clutch lever actuation	0												
	Check brake function	0												
	Check work lamp illumination	0												
	Adjust handle position	0												
tion	Check safety lock of main clutch	0												
sect	Check cover condition	0												
ng	Clean driving section		0											
Driving section	Grease and Lubricate all moving parts			0			0							Maintenance schedules differ according to greasing points
	Adjust engine clutch spring												0	
	Check brake wire							0					Δ	
	Check electrical wiring condition (Damage, defacement and joint looseness)										0			
	Adjust engine clutch gap												0	
	Check throttle wire												0	
	Check main clutch wire												0	
	Check blade condition (Reel cutter and Bedknife)	0												
	Check cover condition	0												
	Check roller condition	0												
	Check groomer condition	0												
	Engage blades	0												
	Check mowing height	0												
Cutting section	Adjust groomer	0												
sec	Check damaged parts	0												
bu	Check tightening bolts and nuts	0												
Cutt	Clean cutting section		0											
	Grease			0			0							Maintenance schedules differ according to greasing points
	Replace bearings inside gearcase										Δ			
	Replace front roller bearings										Δ			
	Replace oil seals inside gearcase										Δ			

Page 5-4 Maintenance Schedule

Maintenance Item		Before Work	After Work	Every 10 hrs.	Every 20 hrs.	Every 25 hrs.	Every 50 hrs.	Every 100 hrs.	Every 300 hrs.	Every 500 hrs.	Every year	Every 2 years	When Required	Remarks	
		Replace front roller oil seals										Δ			
_		Replace grease inside gearcase										Δ			
section		Clean and Grease Bedknife Eccentric Bushes												0	
ing	Adjust cutter adjustment spring													0	
Cutting		Backlap blades			·									0	
		Regrind blades (Reel cutter)												0	Grind/Replace blades as and when required

- \cdot *1: Consult your local Baroness Dealer for this service.
- \cdot *2: Refer to the Engine's Owner's Manual.
- $\boldsymbol{\cdot}$ The values for consumables are not guaranteed.

Adjusted Values

Cutter adjustment spring	50.0 mm (1.97 in)	Length of coil spring
Reel cutter shaft bearing preload spring	11.5 mm (0.453 in)	Total length of spring
Reel cutter rotation torque	0.8 - 1.0 N · m (8 - 10 kgf · cm)	
Engine clutch	0.5 - 1.0 mm (0.020 - 0.039 in)	Gap between engine clutch and clutch facing
Operation distance of clutch plate	1.0 - 2.0 mm (0.039 - 0.079 in)	
Engine clutch spring	61.0 mm (2.40 in)	Total length of spring

Maintenance Schedule Page 5-5

Greasing

About Greasing

Since there may be adhesion or damage due to lack of grease on moving parts, they must be greased.

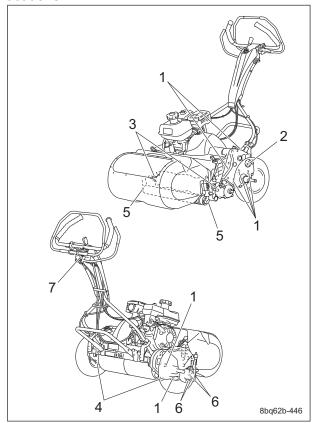
Add urea-based No. 2 grease in accordance with the Maintenance Schedule.

Other locations where the specified grease or lubricant is used are indicated in "Greasing Points"

Add grease using the specified grease or lubricant.

Greasing Points

Grease nipples are installed in the following locations.



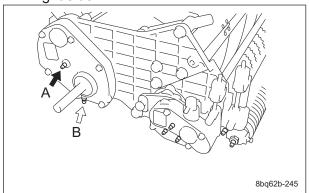
Greasing Points_001

	Location	No. of greasing points		asing riod
1	Frame & Transmission	7	Α	В
2	Differential gear	1	Α	-
3	Reel bearing	2	-	В
4	Drum housing	2	-	В
5	Front roller	2	-	В
6	Groomer	4	Α	В
7	Handle	1	-	В

Add grease to A every 10 hours and B every 50 hours.

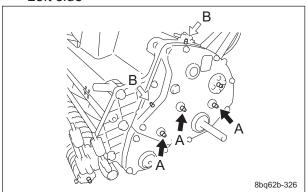
Frame & Transmission
 There are seven points in total on the left and right.

Right side



Greasing Points_002

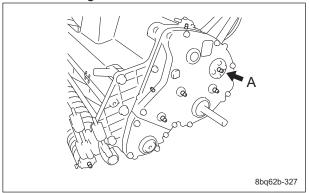
Left side



Greasing Points_003

Page 5-6 Greasing

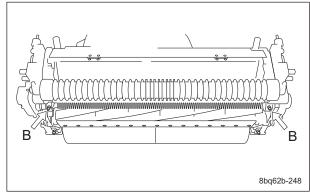
2. Differential gear



Greasing Points_004

3. Reel bearing

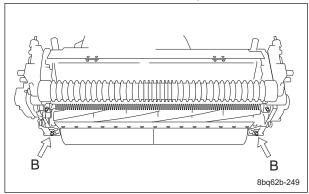
Before the initial greasing, remove the elastic adhesive on the tips of the grease nipples with a flat-blade screwdriver, etc.



Greasing Points_005

4. Drum housing

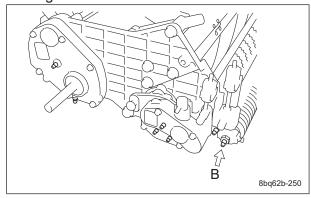
Before the initial greasing, remove the elastic adhesive on the tips of the grease nipples with a flat-blade screwdriver, etc.



Greasing Points_006

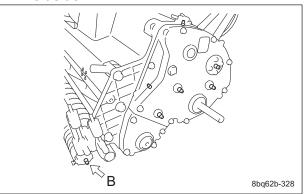
5. Front roller

There is one point each on the left and right. Right side



Greasing Points_007

Left side

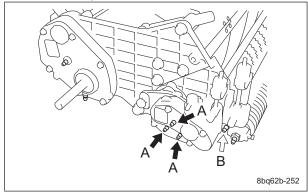


Greasing Points_008

6. Groomer

Note:

Depending on the specifications, this function may not be available.

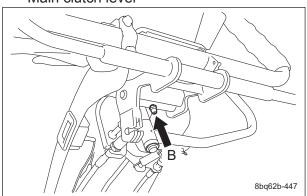


Greasing Points_009

Greasing Page 5-7

7. Handle

· Main clutch lever



Greasing Points_010

Lubrication

About Lubrication

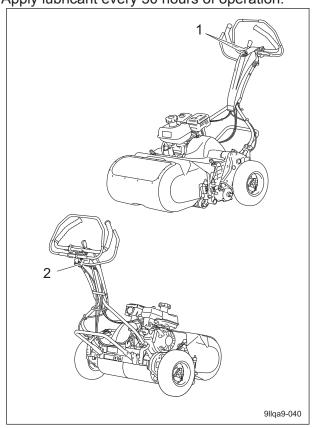
It is necessary to lubricate moving parts so that they will not become stuck or damaged. The locations where lubricant is used are indicated in "Lubricating Points".

Apply the lubricant.

Lubricating Points

There are oil filling ports at the following locations.

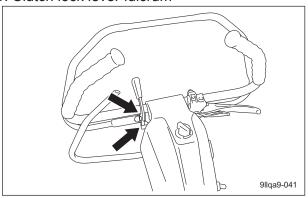
Apply lubricant every 50 hours of operation.



Lubricating Points_001

	Location	No. of greasing points
1	Clutch lock lever fulcrum	2
2	Throttle lever fulcrum	1

1. Clutch lock lever fulcrum

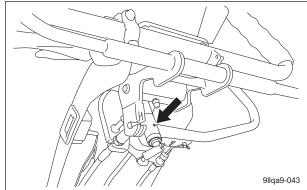


Lubricating Points_002

2. Throttle lever fulcrum

Note:

Depending on the specifications, this function may not be available.



Lubricating Points_003

Page 5-8 Lubrication

Maintenance Work

Adjustment of Cutter Adjustment Spring

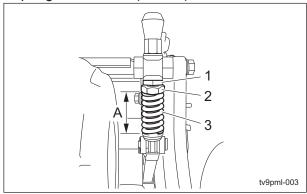


When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands.

Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

If the diameter of the reel cutter (cutting cylinder) becomes smaller, adjust the cutter adjustment spring.

- 1. Adjust the blade engagement.
- 2. Loosen the spring adjusting screw and the nut, and then adjust the length of the coil spring to 50.0 mm (1.97 in).



Adjustment of Cutter Adjustment Spring_001

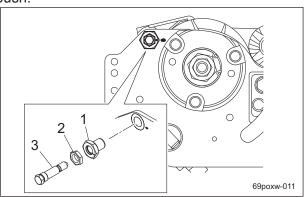
1	Spring adjusting screw
2	Nut
3	Spring
Α	50 mm (1.97 in)

Adjusting CAM

Turn the cam bush on both sides of the bed knife (bottom blade), and the blade can be raised and lowered respectively by maximum 0.3 mm (0.012 in).

The above method is used when the edges of the reel cutter (cutting cylinder) and the bed knife (bottom blade) are not in parallel. Check for the gap between the reel cutter (cutting cylinder) and the bed knife (bottom blade).

Loosen the locknut when adjusting the cambush.



Adjusting CAM_001

1	Cam bush
2	Locknut
3	Cutter pin

When the gap appears on the left side.:

- Turn the left cam bush clockwise to eliminate only the gap distance.
 When you raise the bed knife (bottom blade).
 - When you raise the bed knife (bottom blade) by 0.1 mm (0.004 in), turn the left cam bush clockwise 30 degrees.
- 2. Once the adjustment completed, tighten the locknut securely.

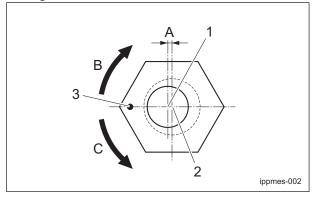
When the gap appears on the right side.:

- 1. Turn the right cam bush counterclockwise to eliminate only the gap distance.
- 2. Once the adjustment completed, tighten the locknut securely.

Note

The figure below shows the situation when you see from the left side.

The right side is mirror reversed.



Adjusting CAM_002

Maintenance Work Page 5-9

1	Center of cutter pin
2	Center of cam bush
3	Punch mark
Α	0.3 mm (0.012 in)
В	Raising the bed knife
С	Lowering the bed knife.

Back Lapping

Back lapping is work similar to sharpening a cooking knife. If the edges of the reel cutter (cutting cylinder) and the bed knife (bottom blade) become blunt and make cutting difficult, both the reel cutter (cutting cylinder) and the bed knife (bottom blade) should be simultaneously sharpened by reversing the reel cutter (cutting cylinder) with an abrasive paste applied.

However, back lapping is a temporary measure and would not restore the sharpness completely.

If the edges of the reel cutter (cutting cylinder) and the bed knife (bottom blade) become blunt and make cutting difficult, follow the steps below to perform back lapping.



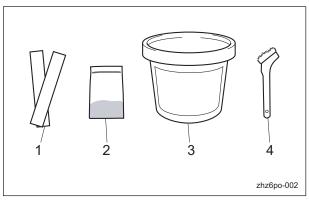
During back lapping, the reel cutter (cutting cylinder) rotates.

Keep hands and feet away from moving parts.



Do not perform back lapping with any other persons.

 Have the following items ready: Strips of newspaper, Abrasive [Back lapping powder mixed with oil; or gel compound (Baroness genuine abrasive)], Brush.



Back Lapping_001

1	Newspaper
2	Back lapping powder
3	Gel compound
4	Brush

Note:

The mixing ratio for the abrasive, in volume, is one part back lapping powder (#200 - #400) to three or four parts oil.

Have a lapping machine or the lapping handle ready.

▲ Caution

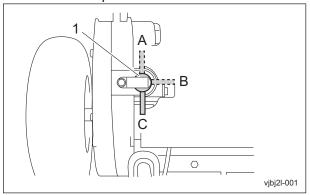
When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands.

However, pay attention not to let the reel cutter (cutting cylinder) catch your gloves, etc. Otherwise, you may injure your hand or fingers.

Important

Check the sharpness of the blade by checking the blade engagement after cutting grass.

- 3. Stop the engine.
- 4. Set the traveling/working selector lever to the "Travel OFF" position.

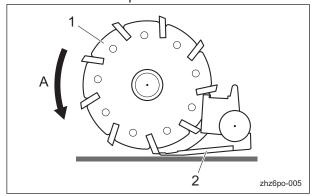


Back Lapping_002

Page 5-10 Maintenance Work

1	Traveling/Working selector lever	
Α	Reel ON	
В	Travel ON	
С	Travel OFF	

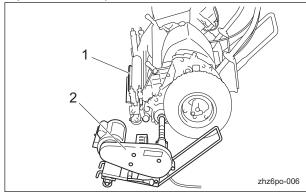
5. Insert one or two strips of newspaper into the space between the reel cutter (cutting cylinder) and the bed knife (bottom blade) at an angle of 90 degrees. Then, rotate the reel cutter (cutting cylinder) counter-clockwise (when you face the mower unit from the left) to check the sharpness of the blades.



Back Lapping_003

1	1 Reel cutter (Cutting cylinder)		
2	Bed knife (bottom blade)		
Α	Rotation direction		

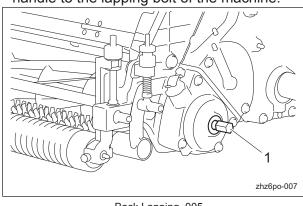
- 6. Check the sharpness of the entire range (three or four points) of the reel cutter (cutting cylinder).
- 7. With a piece of chalk, etc., mark locations on the blade that are sharp.
- 8. With a roller receiver, jack stand, etc., position the machine so that the bed knife (bottom blade) is level.



Back Lapping_004

1	Roller receiver
2	Lapping machine

9. Connect the lapping machine or lapping handle to the lapping bolt of the machine.



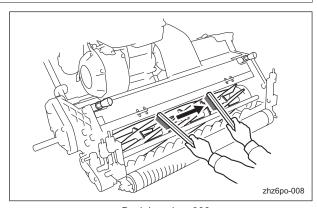
Back Lapping_005

Lapping bolt

- Rotate the reel cutter (cutting cylinder) clockwise (reverse rotation) when you face the mower unit from the left.
 - Turn on the lapping machine.
 Otherwise, rotate the lapping handle.

Important

The right side of the reel cutter (cutting cylinder) (when you face the mower unit from the front) is inclined to wear earlier than the left side. Accordingly be sure to move the brush from the left to the right to apply the abrasive.



Back Lapping_006

- 11. Apply the abrasive evenly with the brush on the top side of reel cutter (cutting cylinder) where the newspaper was cut well or of chalk-marked locations.

 (Never apply to blunt areas.)
- 12. Rotate the reel cutter (cutting cylinder) for a while and stop its rotation when the sound of contact is lost.
 - Turn off the lapping machine.
 Otherwise, stop rotating the lapping handle.

Maintenance Work Page 5-11

- 13. Remove the lapping machine or lapping handle.
- 14. Wash off or wipe off with a cloth, etc., the abrasive from the reel cutter (cutting cylinder), and then check the sharpness.
- 15. Repeat steps 5 to 14 until the entire range (three or four points) of the reel cutter (cutting cylinder) is uniformly sharpened.
- 16. Finally, apply abrasive to the entire blade width of the reel cutter (cutting cylinder) and perform final back lapping.

Important

When cleaning, do not allow water to come into contact with the engine or electrical components.

- 17. Wash off the abrasive with a washer, etc.
- 18. While checking the blade for sharpness, adjust blade engagement.

<u>Sharpening of Reel Cutter (Cutting Cylinder)</u>

The sharpening of the reel cutter (cutting cylinder) consists in maintaining its roundness and creating a relief (second edge face). This work should be performed if the sharpness cannot be restored, even after back lapping, or if the relief (second edge face) has

Sharpen the reel cutter (cutting cylinder) when the sharpness cannot be restored, even after back lapping, or when the relief (second edge face) has worn away, there is full contact or back lapping takes too much time.

In addition, if the reel cutter (cutting cylinder) becomes worn and its shape conical, perform cylindrical grinding to return it to a cylindrical shape.

For sharpening the reel cutter (cutting cylinder), contact your dealer or Baroness unless you have a grinding machine.



worn away.

Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.

▲ Caution

Wear gloves when touching edged tools to avoid cutting your hands.

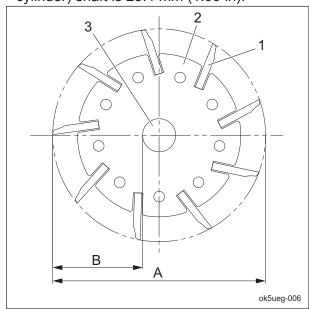
The criteria for sharpening the reel cutter (cutting cylinder) are described below. However, these criteria are only references and do not guarantee performance of a reel cutter (cutting cylinder).

 If the outer diameter of the reel cutter (cutting cylinder) after sharpening is more than the usage limit, the reel cutter (cutting cylinder) can be sharpened.

New		Usage limit	
Dimension A (Outer diameter of reel cutter (cutting cylinder))	Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)	Dimension A (Outer diameter of reel cutter (cutting cylinder))	Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)
128 mm (5.04 in)	51.3 mm (2.02 in)	118 mm (4.65 in)	46.3 mm (1.82 in)

Note:

The outer diameter of the reel cutter (cutting cylinder) shaft is 25.4 mm (1.00 in).



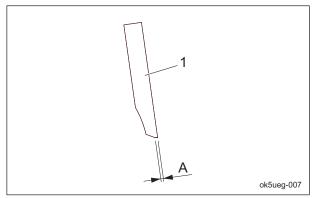
Sharpening of Reel Cutter (Cutting Cylinder)_001

Page 5-12 Maintenance Work

1	Reel cutter (cutting cylinder) blade	
2	Reel cutter (cutting cylinder) disc	
3	Reel cutter (cutting cylinder) shaft	
А	Outer diameter of reel cutter (cutting cylinder)	
В	Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft	

- 2. Sharpening is necessary when the reel cutter (cutting cylinder) reaches a condition described below.
 - [1] When the sharpening width (length of contacting surface of bed knife (bottom blade)) for the outer diameter of the reel cutter (cutting cylinder) is greater than the usage limit.

Outer diameter of reel cutter (cutting cylinder) (new part)	Usage limit of sharpening width for outer diameter of reel cutter (cutting cylinder)
128 mm (5.04 in)	2.5 mm (0.10 in) (factory-recommended)



Sharpening of Reel Cutter (Cutting Cylinder)_002

1	Reel cutter (cutting cylinder) blade
Δ	Sharpening width for outer diameter of
A	reel cutter (cutting cylinder)

- [2] When the edges become blunt or the blade edge cannot be formed with back lapping
- [3] When the reel cutter (cutting cylinder) becomes worn and its shape conical, or when blade engagement adjustment cannot be performed

Replacement of Reel Cutter (Cutting Cylinder)



Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



Wear gloves when touching edged tools to avoid cutting your hands.

The criteria for replacing the reel cutter (cutting cylinder) are described below.

However, these criteria are only a reference and do not guarantee performance like that of a new reel cutter (cutting cylinder).

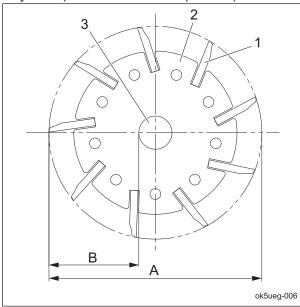
1. When the outer diameter of the reel cutter (cutting cylinder) is less than the usage limit

New		Usage limit	
Dimension A (Outer diameter of reel cutter (cutting cylinder))	Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)	Dimension A (Outer diameter of reel cutter (cutting cylinder))	Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)
128 mm	51.3 mm	118 mm	46.3 mm
(5.04 in)	(2.02 in)	(4.65 in)	(1.82 in)

Maintenance Work Page 5-13

Note:

The outer diameter of the reel cutter (cutting cylinder) shaft is 25.4 mm (1.00 in).



Replacement of Reel Cutter (Cutting Cylinder)_001

1	Reel cutter (cutting cylinder) blade
2	Reel cutter (cutting cylinder) disc
3	Reel cutter (cutting cylinder) shaft
Α	Outer diameter of reel cutter (cutting cylinder)
В	Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft

Installing The Reel Cutter (Cutting Cylinder)



Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands.

Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

Follow the steps below to replace the bearings and oil seals on the left and right ends of the reel cutter (cutting cylinder).

Important

Use 30204JRP6 as bearing.

- 1. Fill up the bearings and oil seals with grease (Excelite EP No. 2).
- 2. Install the reel cutter (cutting cylinder) onto the frame.
- 3. Tighten the nut until the length of the spring reaches 11.5 mm (0.453 in), and then lock it

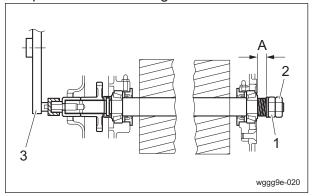
Note:

Preloading with a constant force by spring pressure is possible.

4. Measure the rotating torque of the reel cutter (cutting cylinder) with a torque wrench

The specified value is 0.8 to 1.0 N·m (8 to 10 kgf·cm).

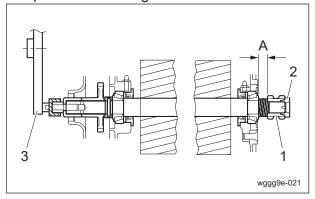
Specification without groomer:



Installing The Reel Cutter (Cutting Cylinder)_001

1	Washer
2	Left-hand nut
3	Torque wrench
Α	11.5 mm (0.453 in)

Specification with groomer:



Installing The Reel Cutter (Cutting Cylinder)_002

Page 5-14 Maintenance Work

1	Reel gear
2	Reel gear fixing nut
3	Torque wrench
Α	11.5 mm (0.453 in)

Replacement of Bed Knife (Bottom Blade)



Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.

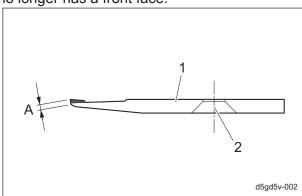


Wear gloves when touching edged tools to avoid cutting your hands.

The criteria for replacing the bed knife (bottom blade) are described below.

- 1. When the reel cutter (cutting cylinder) is ground
- 2. When the reel cutter (cutting cylinder) is replaced
- 3. When the bed knife (bottom blade) is worn Standard blade

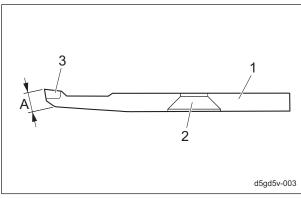
Replace the bed knife (bottom blade) before it no longer has a front face.



Replacement of Bed Knife (Bottom Blade)_001

1	Bed knife (bottom blade)
2	Mounting hole
А	Front face

High-speed-steel-tipped blade Replace the bed knife (bottom blade) before it no longer has a tip.



Replacement of Bed Knife (Bottom Blade)_002

1	Bed knife (bottom blade)
2	Mounting hole
3	Tip
Α	Front face

Removing/Installing The Bed Knife Base

Removing The Bed Knife Base



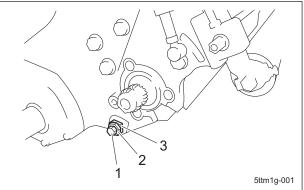
Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



Raising the front part of the machine for servicing operation may create a falling hazard.

Support the machine securely.

 Loosen the lock nuts on both sides, and then loosen the cutter pins.

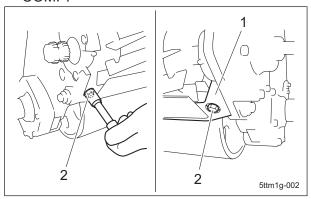


Removing The Bed Knife Base_001

1	Cutter pin
2	Lock nut
3	Cam bush

Maintenance Work Page 5-15

Remove the 2 bolts that secure the bed knife base arm Assy and bed knife base COMP.



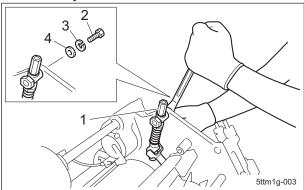
Removing The Bed Knife Base 002

1	Bed knife base COMP
2	Bolt

Important

Keep 1 to 5 pieces of washer for clearance adjustment between the fulcrum seat and the frame if there are any of them.

Unscrew the fulcrum seat bolt, S washer, washer, and remove the bed knife base arm Assy from the bed knife base COMP.



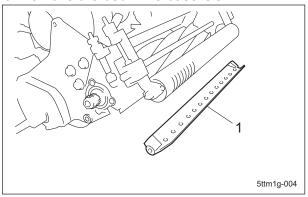
Removing The Bed Knife Base_003

1	Bed knife base arm Assy
2	Bolt
3	S washer
4	Washer



Be careful when you remove the cutter pin as the bed knife base COMP may fall off.

 While supporting the bed knife base COMP, remove the cutter pins and lock nuts on both sides. 5. Remove the bed knife base COMP.



Removing The Bed Knife Base_004

1 Bed knife base COMP

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Installing The Bed Knife Base



Caution

Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



Caution

When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands.

Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.



A Caution

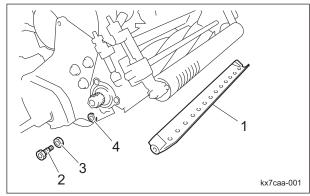
While operations are performed with the front of the machine raised, it may fall. Securely support the machine.

Important

Make sure that there is no binding at the cam bushes in the frame of the mower unit.

1. Temporarily install the bed knife base COMP onto the machine with the left and right cutter pins and lock nuts. Note:

At this time, tighten the lock nuts to the heads of the cutter pins, but do not allow the lock nuts to contact the cam bushes.



Installing The Bed Knife Base 001

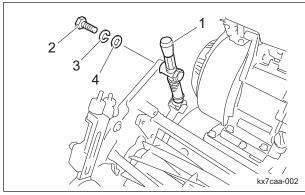
1	Bed knife base COMP
2	Cutter pin
3	Lock nut
4	Cam bush

Important

Install the bed knife base arm Assy parallel to the frame.

During installation, be careful not to twist both arms.

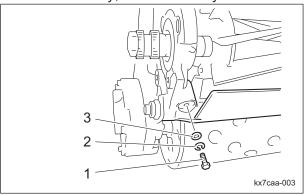
- 2. Insert the bed knife base arm Assy into the bed knife base COMP.
- 3. Temporarily install the bed knife base arm with the bolt of the fulcrum seat.



Installing The Bed Knife Base_002

1	Bed knife base arm Assy
2	Bolt
3	Spring washer
4	Washer

4. Tighten the bolt used to install the bed knife base arm Assy, and then firmly secure it.



Installing The Bed Knife Base_003

1	Bolt
2	Spring washer
3	Washer

Important

Do not tighten the left and right lock nuts.

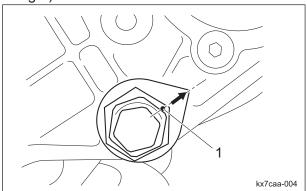
5. Tighten the left and right cutter pins used to temporarily install the bed knife base COMP.

Maintenance Work Page 5-17

6. Remove the fulcrum seat bolt used to temporarily install the bed knife base arm. Note:

With the weight of the bed knife base arm, the bed knife (bottom blade) will slightly come into contact with the reel cutter (cutting cylinder).

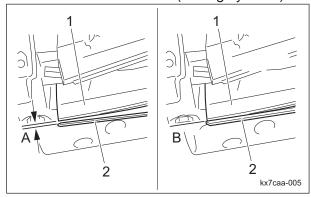
7. Align the punch mark on each (left and right) cam bush with the travel direction.



Installing The Bed Knife Base_004

1 Punch mark

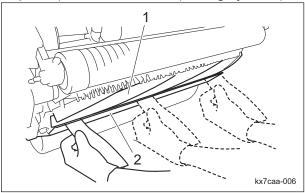
8. Make sure that the bed knife (bottom blade) contacts the reel cutter (cutting cylinder).



Installing The Bed Knife Base_005

1	Reel cutter (Cutting cylinder)
2	Bed knife (bottom blade)
Α	Gap
В	No gap

9. Insert one or two strips of newspaper into the space between the reel cutter (cutting cylinder) and the bed knife (bottom blade) at an angle of 90 degrees. Then, rotate the reel cutter (cutting cylinder) counterclockwise (as seen from the left side of the mower unit) by hand to check the sharpness of the entire range (three or four points) of the reel cutter (cutting cylinder).



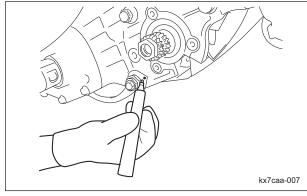
Installing The Bed Knife Base_006

1	Reel cutter (Cutting cylinder)
2	Bed knife (bottom blade)

10. Adjust the positions of the cam bushes so that both sides cut.

"Adjusting CAM" (Page 5-9) Note:

After making adjustments, use a marker, etc., to place a mark on the frame at the position of the punch mark.



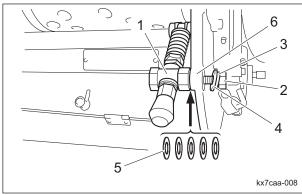
Installing The Bed Knife Base_007

Page 5-18 Maintenance Work

Important

If one to five gap adjustment washers had been inserted between the fulcrum seat and the frame, insert gap adjustment washers so that the gap is eliminated.

11. Install the fulcrum seats onto the left and right frames with the bolts, spring washers and washers.



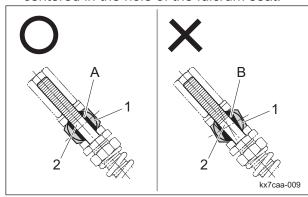
Installing The Bed Knife Base_008

	-
1	Fulcrum seat
2	Bolt
3	Spring washer
4	Washer
5	Gap adjustment washer
6	Frame

12. Align the vertical hole in the fulcrum seat, and then secure it.

OK: The cutter adjustment bolt is centered in the hole of the fulcrum seat.

NG: The cutter adjustment bolt is not centered in the hole of the fulcrum seat.



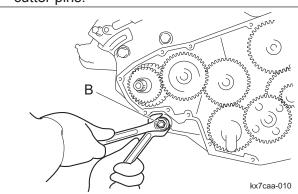
Installing The Bed Knife Base_009

	-
1	Fulcrum seat
2	Cutter adjustment bolt
Α	ОК
В	NG

Important

Make sure that the cam bush does not move from the marked position.

13. Tighten the lock nuts of the left and right cutter pins.



Installing The Bed Knife Base_010

Lock nut

Maintenance Work Page 5-19

Removing/Installing The Bed Knife

Removing The Bed Knife

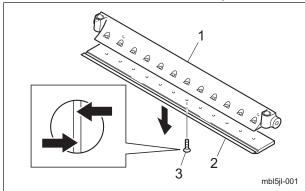


Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



While operations are performed with the front of the machine raised, it may fall. Securely support the machine.

- 1. Remove the bed knife base COMP.
- 2. Place the bed knife base COMP on a stable workbench.
- 3. Remove the bed knife by loosening the screw with a hammer driver or punch.



Removing The Bed Knife_001

1	Bed knife base
2	Bed knife
3	Screw

Installing The Bed Knife



Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.

▲ Caution

While operations are performed with the front of the machine raised, it may fall. Securely support the machine.

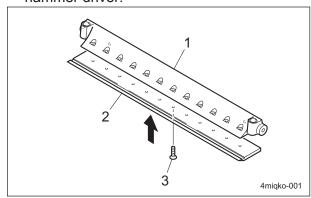
Important

Be sure not to scratch the bed knife base surface where the bed knife shall be mounted. Remove rust and dust.

Important

Replace the old screws with new ones.

1. Tighten the screws uniformly with a hammer driver.



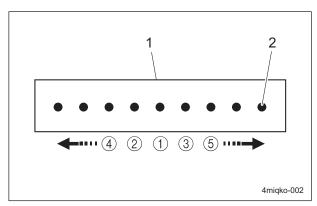
Installing The Bed Knife_001

	_
1	Bed knife base
2	Bed knife
3	Screw

Note:

When installing the bed knife, first tighten the center screw, and then tighten from center outwards, alternating between left and right sides.

Page 5-20 Maintenance Work



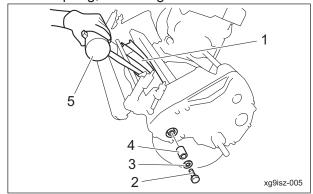
Installing The Bed Knife_002

1	Bed knife
2	Screw

Removing/Installing The Small Cover (Left)

Removing The Small Cover (Left)

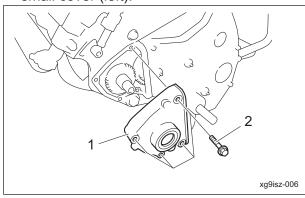
1. Insert an item such as a wooden hammer handle into the reel cutter to prevent it from turning, and remove the lapping bolt, the disk spring, and the gear retainer collar.



Removing The Small Cover (Left)_001

,	\ /_
1	Reel cutter
2	Lapping bolt
3	Disk spring
4	Gear retainer collar
5	Wooden hammer

2. Unscrew the 4 bolts, and then detach the small cover (left).

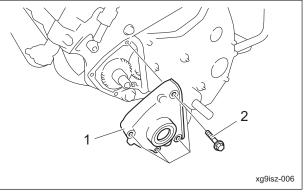


Removing The Small Cover (Left)_002

1	Small cover (left)
2	Bolt

Installing The Small Cover (Left)

1. Attach the small cover (left) temporarily to the frame with four bolts.



Installing The Small Cover (Left)_001

1	The small cover (left)	
2	Bolt	

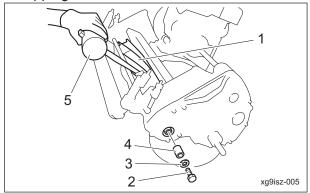
Important

Be sure that there is no gap between the oil seal fitted in the small cover (left) and the gear retainer collar.

- 2. Install the gear retainer collar to the reel cutter shaft while adjusting the position of the small cover (left).
- 3. Tighten the 4 bolts which have temporarily been attached to the small cover (left).

Maintenance Work Page 5-21

4. Insert an item such as a wooden hammer handle into the reel cutter to prevent it from turning, and install the disk spring and the lapping bolt.



Installing The Small Cover (Left)_002

1 Reel cutter		Reel cutter
	2	Lapping bolt
	3	Disk spring
	4	Gear retainer collar
	5	Wooden hammer

Adjustment of Brake



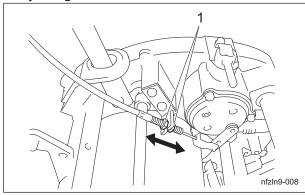
If the brake wire is cut, the machine will be unable to stop.

If the brake wire is cracked or damaged, replace it with a new one immediately.



If the brake is not sufficiently effective when it has been applied, adjust the brake wire.

1. Adjust the brake by use of the brake wire adjusting nut.



Adjustment of Brake_001

1 Adjusting nut

- 2. Make sure that the brake shoe does not touch the brake drum.
 - Avoid the brake always being engaged. Note:
 - The brake shoe may touch the brake drum if you hear a rubbing sound or the drum feels heavy when rotating the drum.
- 3. Make sure that the brake lever is locked when gripping the lock lever while gripping the brake lever.

Adjustment of Engine Clutch Section

For centering adjustment of the engine clutch: Centering adjustment of the engine clutch is required after replacement of the engine or clutch parts.

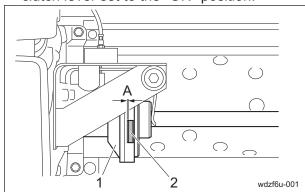
- 1. Adjust the engine clutch.
- 2. Adjust the clutch wire.
- 3. Adjust the clutch spring.

For clearance adjustment of the engine clutch: Clearance adjustment of the engine clutch is required after replacement of the clutch wire or when the clutch slips.

- 1. Adjust the clutch wire.
- 2. Adjust the clutch spring.

Adjustment of Engine Clutch

Adjust the clearance between the engine clutch and clutch facing so that it will be 0.5 - 1.0 mm (0.020 - 0.039 in) when the main clutch lever set to the "ON" position.



Adjustment of Engine Clutch_001

1 Engine clutch		Engine clutch
	2	Clutch facing
	Α	0.5 - 1.0 mm (0.020 - 0.039 in)

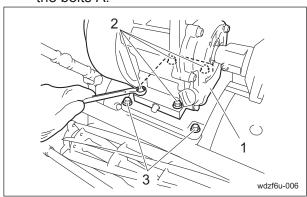
1. Loosen the four bolts A securing the engine.

Be sure not to loosen the bolts B.

Page 5-22 Maintenance Work

Insert a thickness gauge (accessory tool) between the engine clutch and the clutch facing.

Make adjustment of the engine position so that the front and rear clearances will be the same distance, and then tighten the bolts A.



Adjustment of Engine Clutch_002

1	Engine
2	Bolt A
3	Bolt B

Adjustment of Clutch Wire

Important

Make sure that the wire is not cracked or damaged.

If the wire is cracked or damaged, replace it with a new one immediately.

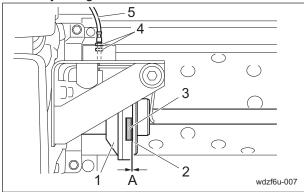
Important

Movement of the lever may become dull due to frequent use, and play of the inner wire may change and the inner wire may be stretched depending on R angle of the outer wire. Inspect them and, if necessary, implement adjustment.

Make adjustment of the clutch wire so that the operation distance of the clutch plate between "ON" and "OFF" positions of the main clutch lever will be 1.0 - 2.0 mm (0.039 - 0.079 in).

- 1. Loosen the clutch wire adjusting nuts.
- 2. Adjust the operation distance of the clutch plate by changing the clutch wire position.

 After appropriate adjustment of the operation distance of the clutch plate completed, tighten the clutch wire adjusting nuts.



Adjustment of Clutch Wire_001

1	Engine clutch	
2 Clutch plate		
3	Clutch facing	
4	Clutch wire adjusting nut	
5	Clutch wire	
Α	1.0 - 2.0 mm (0.039 - 0.079 in)	

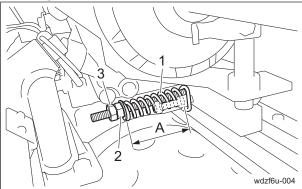
Adjustment of Clutch Spring

The factory default setting of the clutch spring total length is 61.0 mm (2.40 in). The longer the spring is set, the lighter clutch handling is provided. The shorter, the heavier.

- Make adjustment with the spring adjustment nut so that the total length of the clutch spring will be 61.0 mm (2.40 in) when the main clutch lever set to the "ON" position.
- Loosen the lock nut and adjust the clutch spring total length with the spring adjustment nut.
- 3. Confirm that there is no engine clutch slipping when the main clutch lever set to the "ON" position.

Maintenance Work Page 5-23

4. Tighten the lock nut.



Adjustment of Clutch Spring_001

1 Clutch spring	
2	Spring adjustment nut
3	Lock nut
Α	61.0 mm (2.40 in)

Change of Air Cleaner

A contaminated air cleaner element may cause malfunction of the engine.

To maximize the life of the engine, replace the air cleaner element at the appropriate times.

- 1. The timing for replacing the air cleaner element is described below.
 - Replace the air cleaner element in accordance with the Maintenance Schedule.
 - [2] If it is significantly contaminated, replace it, even if the hours of operation do not exceed the specified time.
- Replace the air cleaner element by following the same steps as for cleaning the air cleaner.

"Cleaning of Air Cleaner" (Page 4-4)

Replacement of Engine Oil



Be careful with hot oil, which could cause burns if it contacts your skin.

Important

When you replace the engine oil, be sure to drain it into a bowl and discard it in accordance with local laws and regulations.

Important

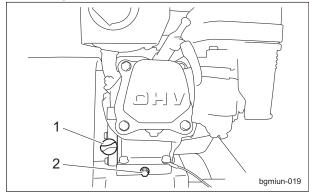
Be sure to use engine oil that is classified as API Service Grade SE or higher, with an SAE Viscosity that is appropriate for the operating environment (ambient temperature).

Important

Screw the oil level gauge firmly.

Replace the engine oil more frequently if the engine oil is contaminated, and especially if you use the machine in dusty areas or operate the engine at high loads or in high temperatures.

- 1. Move the machine onto a level surface, stop the engine.
- 2. Remove the drain plug while the engine oil is warm, and then drain the engine oil into a bowl.
- 3. Replace the drain plug in the engine.
- 4. Remove the oil level gauge.
- Through the oil filling port, supply new engine oil.
 The engine oil quantity is approximately 0.56 dm³ (0.56 L).
- Position the machine so that the engine will be level, then check the engine oil level without screwing the oil level gauge into the oil filling port.



Replacement of Engine Oil_001

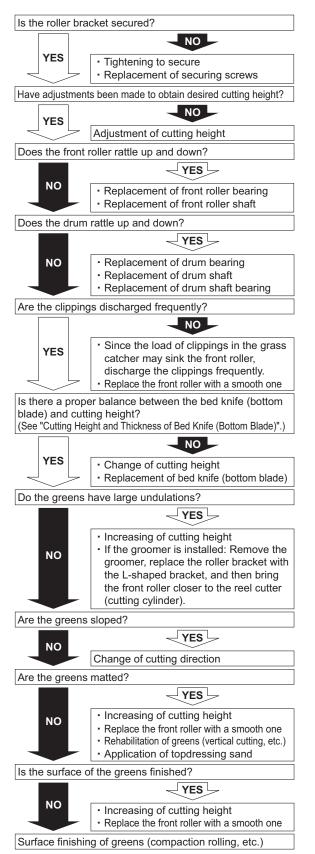
1	Oil level gauge (Oil filling port)
2 Drain plug	

- 7. After checking the oil level with the oil level gauge, add more engine oil if it is insufficient.
- 8. Securely tighten the oil level gauge.
- Check underneath the machine for oil leakage.

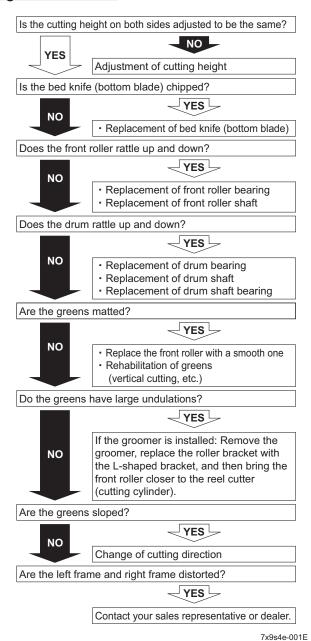
Page 5-24 Maintenance Work

Troubleshooting Procedures of Aftercut Appearance

Scalping

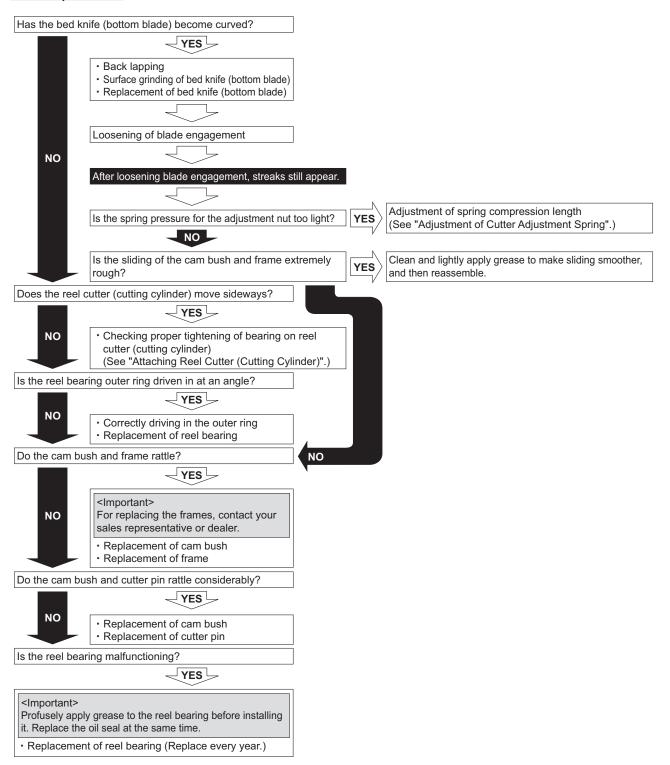


Angled Mismatch



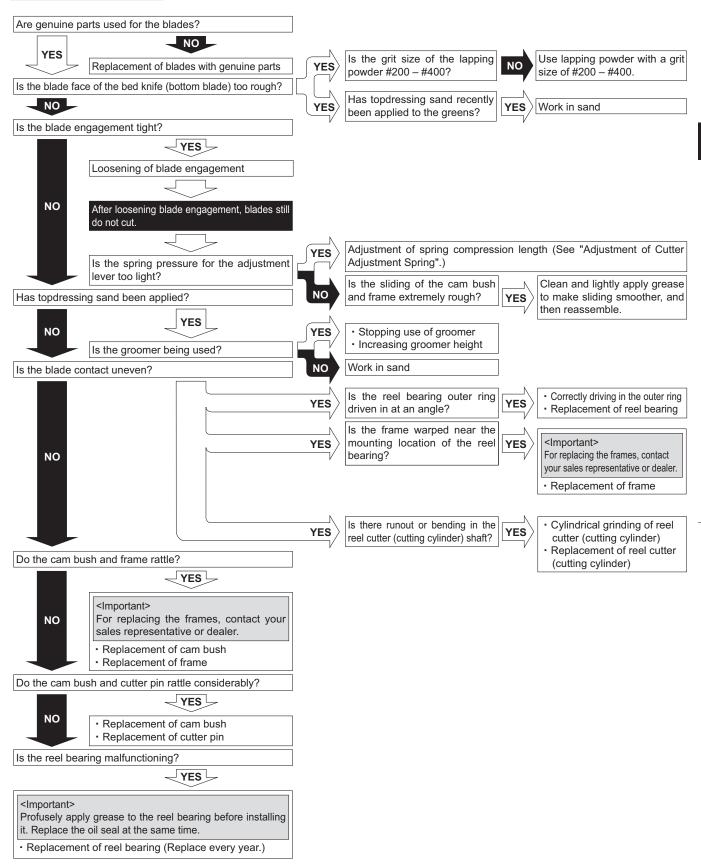
Angled Mismatch_001

Overlap Marks



or58dr-003E

Blade Does Not Cut



t3iz9v-002E

Uneven Blade Engagement

The unevenness is a difference of tightening torque between the left and right cutter adjustment nuts, or blade engagement on only one side, which cannot be adjusted. Promptly resolve the issue in order to maintain the optimum performance of the machine.

Cause of unevenness	Measure to resolve
Asymmetrical wear of reel cutter (cutting	Cylindrical grinding of reel cutter (cutting cylinder)
cylinder)	Replacement of reel cutter (cutting cylinder)
Asymmetrical wear of	Surface grinding of bed knife (bottom blade)
bed knife (bottom blade)	Replacement of bed knife (bottom blade)
Distortion of frames	Rearrange frames in parallel

Important

Depending on the extent of the symptoms, they may not be resolved.

Important

Performing temporary measures may cause the symptoms to progress, resulting in cutting issues.

Temporary measures:

- Adjustment with cam bushes "Adjusting CAM" (Page 5-9)
- Adjustment of spring pressure "Adjustment of Cutter Adjustment Spring" (Page 5-9)

BRRONESS.

EU Declaration of Conformity

Product Identification

Product: Make: Type: Version(s): Lawnmower **BARONESS** LM56 GC

Starting Serial No. : Measured Sound Power Level : Guaranteed Sound Power Level: 35031 LWA

96.24 dB LWA 98 dB

Manufacturer

Kyoeisha Co., Ltd. Name: Address: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Conforms to the following Directives 2006/42/EC

Machinery (MD)

2014/30/EU 2000/14/EC

Electromagnetic compatability (EMC) Noise emissions from outdoor equipment We has been designed and manufactured using the following specifications

ISO 12100 : 2010 (2006/42/EC) ISO 5395-1: 2013 (2006/42/EC) ISO 5395-2: 2013 (2006/42/EC)

ISO 14982:1998 (2014/30/EU) Technical Documentation

Kvoeisha Co., Ltd.

Keeper's Name: Keeper's Address

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Name:

Compiler of the technical file (2006/42/EC)

Address:

Unit 5 Hatch Industrial Park Grewell Road, Basingstke Hampshire RG24 7NG, the United Kingdom

himiye kancho

Conformity assessment procedures

Internal production control: Module A (2006/42/EC) EC-type examination: Module B (2014/30/EU)

Internal control of production with assessment of technical documentation and periodical checking (2000/14/EC)

Involved Notified Body (2000/14/EC)

Name:

SNCH

Address : Certificate / Technical Documentation No. : 11. Route de Sandweiler 5230 Sandweiler Luxembourg

SNCH*2000/14*2005/88*0302*07/TCLM56-07

Place: Japan

Date: 18 April 2018 (18 / 4 / 2018)

Signature

Kimiya Kaneko Name: Position: Quality Dept. Manager

(fr)

Déclaration de conformité UE

Identification du produit

Produit: Fabriquant:

Tondeuse à gazon **BARONESS** LM56 GC

Version(s): Numéro de série de début :

35031

Niveau de puissance acoustique mesuré : Niveau de puissance acoustique garanti :

LwA 96.24 dB

Fabricant

Type:

Nom: Adresse: Kyoeisha Co., Ltd. 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon

Conforme aux directives suivantes :

2006/42/CE 2014/30/UE

Machine (MD)

2000/14/CE

Compatibilité électromagnétique (CEM) Émissions sonores de l'équipement de plein air

Conception et fabrication en respect des spécifications suivantes

ISO 12100 : 2010 (2006/42/CE) ISO 5395-1: 2013 (2006/42/CE) ISO 5395-2: 2013 (2006/42/CE) ISO 14982 :1998 (2014/30/UE)

Fiche technique

Marque: Adresse de la marque : Kyoeisha Co., Ltd.

1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon

Compilateur de la fiche technique (2006/42/CE)

Nom: Adresse

Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Royaume-Uni

Procédures d'évaluation de la conformité

Contrôle de production interne : module A (2006/42/CE)

Examen de type CE: module B (2014/30/UE)

Contrôle interne de la production avec évaluation de la fiche technique et vérification périodique (2000/14/CE)

Organisme notifié impliqué (2000/14/CE)

Nom:

Adresse: 11, Route de Sandweiler 5230 Sandweiler, Luxembourg

Nº de certificat/Documentation technique :

SNCH*2000/14*2005/88*0302*07/TCLM56-07

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Declaración de conformidad de la UE

Identificación del producto

Producto: Marca: Tipo:

Cortacésped BARONESS LM56

Versión:

GC N.º de serie inicial: 35031 Nivel de potencia sonora medido: LWA

Nivel de potencia sonora garantizado: Fabricante Nombre:

96.24 dB LWA 98 dB Kyoeisha Co., Ltd.

Dirección:

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas

2006/42/CE

Maquinaria (MD)

2014/30/UE 2000/14/CE

Compatibilidad electromagnética (EMC) Emisiones sonoras de máquinas de uso al aire libre

Se ha diseñado y fabricado utilizando las siguientes especificaciones

ISO 12100 : 2010 (2006/42/CE) ISO 5395-1: 2013 (2006/42/CE) ISO 5395-2: 2013 (2006/42/CE) ISO 14982 :1998 (2014/30/UE) Documentación técnica

Nombre del responsable: Dirección del responsable: Kyoeisha Co., Ltd. 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Compilador del archivo técnico (2006/42/CE)

Nombre:

Dirección:

Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido

Procedimientos de evaluación de conformidad

Control de fabricación interno: Módulo A (2006/42/CE)

Examen de tipo CE: Módulo B (2014/30/UE)

Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)

Organismo notificado implicado (2000/14/CE) Nombre:

Dirección:

Certificado/Documentación técnica n.º:

11. Route de Sandweiler 5230 Sandweiler Luxemburgo SNCH*2000/14*2005/88*0302*07/TCLM56-07

(de)

EU-Konformitätserklärung

Produktbeschreibung

Produkt: Marke: Modell: Version(en): Rasenmäher **BARONESS** LM56 35031

Startseriennummer: Gemessener Schallleistungspegel: Garantierter Schallleistungspegel:

LWA 96.24 dΒ LWA dΒ

Hersteller Name:

Kyoeisha Co., Ltd.

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Adresse: Entspricht den folgenden Richtlinien

2006/42/EG

Maschinenrichtlinie

2014/30/EU 2000/14/EG Elektromagnetische Verträglichkeit (EMV)

Geräuschemission von im Freien betriebenen Geräten Unter Anwendung der folgenden Bestimmungen entwickelt und hergestellt ISO 12100: 2010 (2006/42/EG)

ISO 5395-1: 2013 (2006/42/EG) ISO 5395-2: 2013 (2006/42/EG) ISO 14982 :1998 (2014/30/EU)

Technische Dokumentation

Name des Halters

Kyoeisha Co., Ltd.

Adresse des Halters

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Technische Unterlagen erstellt von (2006/42/EG)

Name: Adresse:

Kyoeisha U.K.Ltd. Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Großbritannien

Konformitätsbewertungsverfahren

Interne Produktionskontrolle: Modul A (2006/42/EG)

EG-Baumusterprüfung: Modul B (2014/30/EU) Interne Produktionskontrolle mit Bewertung der technischen Unterlagen und regelmäßiger Überprüfung (2000/14/EG)

Beteiligte benannte Stelle (2000/14/EG)

Name:

Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburg Bescheinigung/Technische Dokumentation Nr.: SNCH*2000/14*2005/88*0302*07/TCLM56-07

EU02 - 2

EU-försäkran om överensstämmelse

Produktidentifikation

Produkt: Märke:

Gräsklippare BARONESS LM56

LwA

Тур: Version(er):

GC Serienummer startar på: 35031 LwA

Uppmätt ljudeffektnivå: Garanterad ljudeffektnivå: Tillverkare Namn:

96.24 dΒ dΒ 98 Kyoeisha Co., Ltd.

Adress:

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Uppfyller följande direktiv

2006/42/EG

Maskindirektivet

2014/30/EU 2000/14/EG

Elektromagnetisk kompabilitet (EMC) Bulleremission från utomhusutrustning Följande kravspecifikationer har följts vid konstruktion och tillverkning

ISO 12100 : 2010 (2006/42/EG) ISO 5395-1: 2013 (2006/42/EG) ISO 5395-2: 2013 (2006/42/EG) ISO 14982: 1998 (2014/30/EU)

Teknisk dokumentation

Innehavarens namn:

Kyoeisha Co., Ltd.

Innehavarens adress:

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Den tekniska filen(2006/42/EG) har tagits fram av

Namn:

Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Storbritannien

Förfarande för bedömning av överensstämmelse

Intern produktionskontroll: Modul A (2006/42/EG)

EG-typprovning: Modul B (2014/30/EU)

Intern kontroll av produktion med fastställande av teknisk dokumentation och periodiska kontroller (2000/14/EG)

Anmält organ (2000/14/EG)

Namn:

11, Route de Sandweiler 5230 Sandweiler Luxembourg SNCH*2000/14*2005/88*0302*07/TCLM56-07

Certifikat/Teknisk dokumentation nummer:

BUKUUESS

EU Declaration of Conformity

Product Identification

Product: Lawnmower Make: **BARONESS** LM66 Type: Version(s): TC Starting Serial No. : 35001

Measured Sound Power Level : LWA 95.42 dB Guaranteed Sound Power Level: LWA dB Manufacturer Kyoeisha Co., Ltd. Name:

Address: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Conforms to the following Directives 2006/42/EC

Machinery (MD) 2014/30/EU Electromagnetic compatability (EMC) 2000/14/EC Noise emissions from outdoor equipment

We has been designed and manufactured using the following specifications

ISO 12100: 2010 (2006/42/EC) ISO 5395-1: 2013 (2006/42/EC) ISO 5395-2: 2013 (2006/42/EC) ISO 14982:1998 (2014/30/EU)

Technical Documentation Keeper's Name:

Keeper's Address : 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan Compiler of the technical file (2006/42/EC)

Name: Kvoeisha U.K.Ltd.

Address:

Unit 5 Hatch Industrial Park Grewell Road, Basingstke Hampshire RG24 7NG, the United Kingdom Conformity assessment procedures

Internal production control: Module A (2006/42/EC)

EC-type examination : Module B (2014/30/EU)

Internal control of production with assessment of technical documentation and periodical checking (2000/14/EC)

Kyoeisha Co., Ltd.

Involved Notified Body (2000/14/EC)

Name: SNCH

Address: 11. Route de Sandweiler 5230 Sandweiler Luxembourg Certificate / Technical Documentation No. : SNCH*2000/14*2005/88*1258*04/TCLM66-04

Place: Japan Signature

Date: 18 April 2018 (18 / 4 / 2018) Kimiya Kaneko Name:

Position: Quality Dept. Manager

(fr)

Déclaration de conformité UE

kuniya kaneho

Identification du produit

Produit: Tondeuse à gazon Fabriquant: **BARONESS** Type: LM66 Version(s): Numéro de série de début : 35001

Niveau de puissance acoustique mesuré : LwA 95.42 dΒ

Niveau de puissance acoustique garanti : LwA Fabricant Nom: Kyoeisha Co., Ltd.

Adresse: 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon Conforme aux directives suivantes :

Machine (MD) 2006/42/CE 2014/30/UE Compatibilité électromagnétique (CEM) 2000/14/CE Émissions sonores de l'équipement de plein air Conception et fabrication en respect des spécifications suivantes :

ISO 12100 : 2010 (2006/42/CE) ISO 5395-1: 2013 (2006/42/CE) ISO 5395-2: 2013 (2006/42/CE) ISO 14982 :1998 (2014/30/UE)

Fiche technique

Marque: Kyoeisha Co., Ltd.

Adresse de la marque : 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon Compilateur de la fiche technique (2006/42/CE)

Nom:

Adresse Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Royaume-Uni

Procédures d'évaluation de la conformité Contrôle de production interne : module A (2006/42/CE)

Examen de type CE: module B (2014/30/UE)

Contrôle interne de la production avec évaluation de la fiche technique et vérification périodique (2000/14/CE)

Organisme notifié impliqué (2000/14/CE)

Nom: Adresse:

11, Route de Sandweiler 5230 Sandweiler, Luxembourg

Nº de certificat/Documentation technique : SNCH*2000/14*2005/88*1258*04/TCLM66-04

EU02 - 1

Declaración de conformidad de la UE

dΒ

Identificación del producto

N.º de serie inicial:35001Nivel de potencia sonora medido:LWA95.42Nivel de potencia sonora garantizado:LWA98

Fabricante Nombre: Kyoeisha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas

2006/42/CE Maquinaria (MD)
2014/30/UE Compatibilidad electromagnética (EMC)

2000/14/CE Emisiones sonoras de máquinas de uso al aire libre

Se ha diseñado y fabricado utilizando las siguientes especificaciones

ISO 12100 : 2010 (2006/42/CE) ISO 5395-1 : 2013 (2006/42/CE) ISO 5395-2 : 2013 (2006/42/CE) ISO 14982 :1998 (2014/30/UE)

Documentación técnica

Nombre del responsable: Kyoeisha Co., Ltd.

Dirección del responsable: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Compilador del archivo técnico (2006/42/CE)

Nombre: Kyoeisha U.K. Lt

Dirección: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido

Procedimientos de evaluación de conformidad

Control de fabricación interno: Módulo A (2006/42/CE)

Examen de tipo CE: Módulo B (2014/30/UE)

Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)

Organismo notificado implicado (2000/14/CE)

Nombre:

Dirección: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo

Certificado/Documentación técnica n.º: SNCH*2000/14*2005/88*1258*04/TCLM66-04

(de)

EU-Konformitätserklärung

Produktbeschreibung

Gemessener Schallleistungspegel: LWA 95.42 dB
Garantierter Schallleistungspegel: LWA 98 dB

Hersteller Name: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref, Japan

Entspricht den folgenden Richtlinien

2006/42/EG Maschinenrichtlinie 2014/30/EU Elektromagnetische Verträglichkeit (EMV)

2000/14/EG Geräuschemission von im Freien betriebenen Geräten

Unter Anwendung der folgenden Bestimmungen entwickelt und hergestellt

ISO 12100 : 2010 (2006/42/EG) ISO 5395-1 : 2013 (2006/42/EG) ISO 5395-2 : 2013 (2006/42/EG) ISO 14982 :1998 (2014/30/EU) Technische Dokumentation

Name des Halters Kyoeisha Co., Ltd.

Adresse des Halters 1-26 Miyuki-cho, Toyokawa, Aichi-pref.,Japan

Technische Unterlagen erstellt von (2006/42/EG)

Name: Kyoeisha U.K.Ltd.

Adresse: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Großbritannien

Konformitätsbewertungsverfahren

Interne Produktionskontrolle : Modul A (2006/42/EG) EG-Baumusterprüfung : Modul B (2014/30/EU)

Interne Produktionskontrolle mit Bewertung der technischen Unterlagen und regelmäßiger Überprüfung (2000/14/EG)

Beteiligte benannte Stelle (2000/14/EG)

Name: SN

Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburg Bescheinigung/Technische Dokumentation Nr.: SNCH*2000/14*2005/88*1258*04/TCLM66-04

EU-försäkran om överensstämmelse

dΒ

dB

Produktidentifikation

Produkt: Märke:

Gräsklippare BARONESS

Typ:

LM66 TC

Version(er):

Serienummer startar på: 35001 Uppmätt ljudeffektnivå:

LwA

Garanterad ljudeffektnivå: Tillverkare

95.42 LwA 98 Kyoeisha Co., Ltd.

Namn: Adress:

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Uppfyller följande direktiv

2006/42/EG

Maskindirektivet

2014/30/EU 2000/14/EG

Elektromagnetisk kompabilitet (EMC) Bulleremission från utomhusutrustning Följande kravspecifikationer har följts vid konstruktion och tillverkning

ISO 12100 : 2010 (2006/42/EG) ISO 5395-1 : 2013 (2006/42/EG) ISO 5395-2 : 2013 (2006/42/EG) ISO 14982: 1998 (2014/30/EU)

Teknisk dokumentation

Innehavarens namn: Innehavarens adress: Kyoeisha Co., Ltd.

1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Den tekniska filen(2006/42/EG) har tagits fram av

Namn:

Kvoeisha U.K.Ltd.

Adress:

Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Storbritannien Förfarande för bedömning av överensstämmelse Intern produktionskontroll: Modul A (2006/42/EG)

EG-typprovning: Modul B (2014/30/EU)

Intern kontroll av produktion med fastställande av teknisk dokumentation och periodiska kontroller (2000/14/EG)

Anmält organ (2000/14/EG)

Namn:

SNCH

Adress:

11, Route de Sandweiler 5230 Sandweiler Luxembourg SNCH*2000/14*2005/88*1258*04/TCLM66-04

Certifikat/Teknisk dokumentation nummer:



