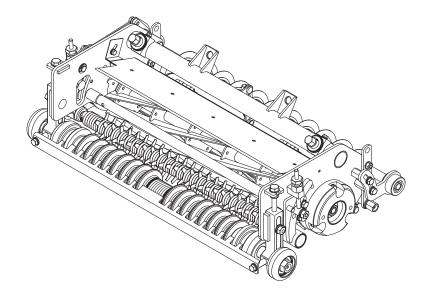


Small Diameter Mower Unit

Owner's Operating Manual



Serial No. LH52: 10136-

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



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. For details on the handling, adjustment and inspection of the main vehicle, refer to the Owner's Operating Manual for the main vehicle.

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 service for this machine should be performed by a mechanic with expertise.

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.



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

Purpose

This mower unit 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 mower unit for other purposes and modifying it may be very dangerous and may cause damage to the machine.

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LH52

Contents

Safety

Safe Operating Practices Page 1-2

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

Read Safe Operating Practices described in the Owner's Operating Manual of Baroness main vehicle equipped with this mower unit thoroughly.

Recycle and Waste Disposal	Page 2-2
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About Waste Disposal	Page 2-2

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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Product Overview

Specifications

Specifications List

LH52

Model LH52					
Туре		Base unit (incl. one	weight)	With groomer	
D:	Total length	14.13 in	359 mm	14.13 in	359 mm
Dimen sions	Total width	27.83 in	707 mm	28.50 in	742 mm
SIONS	Total height	8.66 in	220 mm	8.82 in	224 mm
	Mower Unit	90.39 lb	41.0 kg	97.00 lb	44.0 kg
	Weight (one piece)	4.41 lb	2.0 kg	_	_
Weigh	Groomer	_	_	11.02 lb	5.0 kg
'	CR brush	_	_	_	_
	Groomer + CR brush	_	_	_	_
Operating height (Mowing height)		0.197 - 0.787 in	5.0 - 20.0 mm	0.197 - 0.787 in	5.0 - 20.0 mm
Operating width (Mowing width)		22 in	557.5 mm	22 in	557.5 mm
Diameter of the reel cutter		5 in	128 mm	5 in	128 mm
Blades		7 • 9 • 11		7 - 9 - 11	

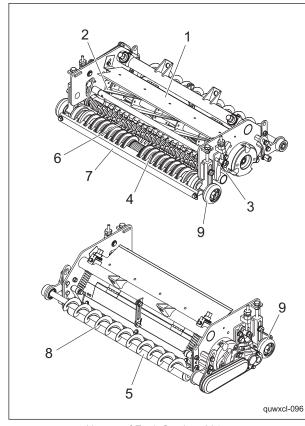
Model		LH52			
Туре		With CR brush type B		With groomer and CR brush type B	
D:	Total length	15.79 in	401 mm	15.79 in	401 mm
Dimen sions	Total width	30.12 in	765 mm	30.12 in	765 mm
510115	Total height	8.66 in	220 mm	8.82 in	224 mm
	Mower Unit	99.21 lb	45.0 kg	105.82 lb	48.0 kg
	Weight (one piece)	_	_	_	_
Weigh	Groomer	_	_	_	_
	CR brush	13.23 lb	6.0 kg	_	_
	Groomer + CR brush	_	_	19.84 lb	9.0 kg
Operating height (Mowing height)		0.197 - 0.787 in	5.0 - 20.0 mm	0.197 - 0.787 in	5.0 - 20.0 mm
Operating width (Mowing width)		22 in	557.5 mm	22 in	557.5 mm
Diameter of the reel cutter		5 in	128 mm	5 in	128 mm
Blades		7 • 9 • 11		7 - 9 - 11	

Page 3-2 Specifications

Features of Small Diameter Mower Unit

- 1. Equipped with a 5.0-inch (128 mm) diameter reel cutter (cutting cylinder).
- 2. The front roller is a grooved roller that will not press down the lawn.
- 3. Grass clippings can be discharged either forward or backward.
- 4. The grass catcher can be installed.
- 5. The groomer can be installed.
- 6. The CR brush can be installed onto the rear roller.
- 7. The groomer and CR brush can be installed at the same time.
- 8. The scraper can be installed on the front and rear roller.

Names of Each Section

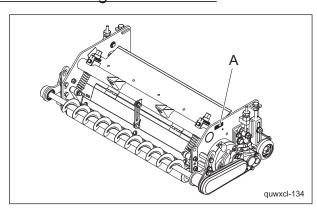


Names of Each Section_001

1	Reel cover
2	Reel cutter
3	Bed knife
4	Front roller
5	Rear roller
6	Groomer
7	Scraper
8	CR brush
9	Support roller

Regulation Decals

Positions of Regulation Decals



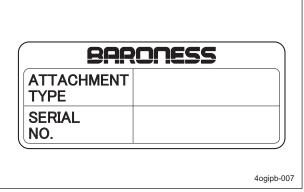
Positions of Regulation Decals_001

A Serial number plate

Description of Regulation Decals

Serial Number Plate

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



Serial Number Plate_001

Names of Each Section Page 3-3

Product Overview

Safety Signs and Instruction Signs

About Safety Decals and Instruction Decals

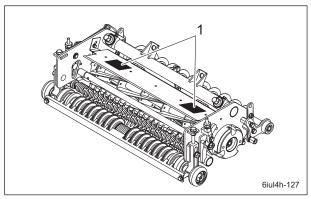
Important

Safety decals and instruction decals are attached to this mower unit.

Make sure that decals 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 to mutilation decal

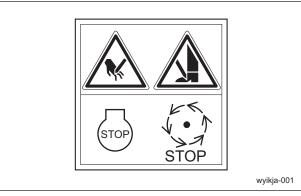
<u>Description of Safety Decals and</u> Instruction Decals

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

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Handling Precautions

Important

This manual contains descriptions for handling the mower unit.

For details on handling the main vehicle, refer to this manual and the Owner's Operating Manual for the main vehicle.

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.
- 2. 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

▲ Warning

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.

Belt

Inspection of Belt



The engine must be stopped when the belt is inspected.

▲ Caution

If you have removed the cover during inspection, make sure that you replace it in the original position securely.

If the cover remains removed, the operator may come in contact with the rotating objects or belt, possibly resulting in injuries.

- 1. Press the middle of the belt with your finger to check the belt tension.
- 2. Make sure that there are no cracks, damage or abnormal wear.

Page 4-2 Handling Precautions

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.

Inspection of Support Roller

Note:

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

Wear of bearings due to frequent use and/or damage of bearings, etc. caused by invasion of water may prevent the roller from rotating smoothly.

Inspect the roller and, if necessary, replace parts such as 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 rust of the bearings.
- 4. Make sure that there is no play in the roller shaft.

Groomer

Inspection of Groomer

Note:

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

The operating efficiency may be reduced due to frequent use, objects crushed during operation, or damage to vertical blades or the shaft during transportation.

In addition, bearing wear or bearing damage caused by water infiltration may prevent the shaft from rotating smoothly.

Inspect the groomer and, if necessary, replace parts such as vertical blades or bearings.

- 1. Make sure that the vertical blades are not cracked.
- 2. Check how much the vertical blades are worn.
- 3. Make sure that the shaft is not worn nor bent.
- 4. Make sure that there is no wear nor rust of the bearing.
- 5. Make sure that there is no play in the groomer shaft.

CR brush

Inspection of CR Brush

Note:

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

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

- 1. Make sure that there is no abrasion nor adhesion of the brush.
- 2. Make sure that there is no wear of the brush shaft.
- 3. Make sure that there is no abnormality in the brush.
- 4. Make sure that there is no play in the fit of the bearing and the housing.
- 5. Make sure that there is no play in the brush shaft.

Inspections Page 4-3

Scraper

Inspection of Scraper

■Inspection of Front Scraper

Note:

Depending on the specifications, this function may not be available. The operating efficiency may be reduced due to frequent use, objects crushed during operation, or damage during transportation. Inspect the scraper, and replace any parts if necessary.

- 1. Make sure that there is no damage nor deformation of the scraper.
- 2. Make sure that there is no contact between the scraper and roller.
- ■Inspection of Rear Scraper

Note:

Depending on the specifications, this function may not be available. The operating efficiency may be reduced due to frequent use, objects crushed during operation, or damage during transportation. Inspect the scraper, and replace any parts if necessary.

- 1. Make sure that there is no damage nor deformation of the scraper.
- 2. Make sure that there is no contact between the scraper and roller.

Page 4-4 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 4-5

	General bolt Strength classification 4.8 M 4 T tib3yb-001		
Nominal diameter			
	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-treated bolt						
	Strength classification 8.8				Strength classification 10.9		
Nominal diameter	$V \circ V \circ T V \vee V$		11 (11T) (10.9) tib3yb-003		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 4-6 Tightening Torques

Principal Tightening Torques

Tightening Torque by Model

LH52

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).

			-	Fightening torqu	е	Thread
Location	Code	Part name	N-m	kgf-cm	lb-in	locking adhesive
Bed knife	K0071000222	SCREW, HT FLAT HEAD M6-12	7 - 9	71.38 - 91.77	61.96 - 79.66	-

Tightening Torques Page 4-7

Adjustment before Work

Adjustment of Blade Engagement



Firmly apply the parking brake before adjustment work.

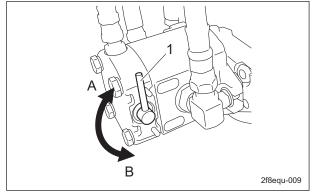


Do not adjust with any other persons.



When handling the reel cutter or bed knife, wear gloves to protect your hands. Pay attention not to let the reel cutter catch your gloves while rotating it. Otherwise, you may injure your hand or fingers.

- 1. Stop the engine.
- 2. Set the reel rotation/stop switching lever to the "Stop" position.



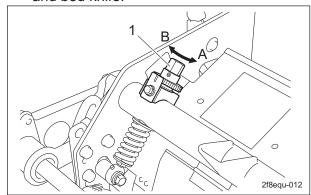
Adjustment of Blade Engagement_001

1	Reel rotation/stop switching lever
Α	Rotation
В	Stop

3. With the cutter adjustment nut, adjust the engagement between the reel cutter and the bed knife so that newspaper (two to three sheets) will be cut by the edge of both blades when the blades in their entirety come slightly into contact with each other.

- 4. Insert two or three strips of newspaper into the space between the reel cutter and the bed knife at an angle of 90 degrees. Then, rotate the reel cutter counterclockwise (as seen from the left side of the mower unit) by hand to check the sharpness. Check the sharpness along the entire reel cutter surface (around 3 to 4 positions).
 - If there is clearance along the edge Loosening the cutter adjustment nut increases contact between the reel cutter and bed knife.
 - If the reel cutter is stiff and does not rotate easily
 Tightening the cutter adjustment nut decreases contact between the reel cutter
 - If cutting is not possible even with adjustment
 Perform back lapping on the reel cutter and bed knife.

and bed knife.



Adjustment of Blade Engagement_002

1	Cutter adjustment nut
Α	Loosen
В	Tighten

Adjustment of Cutting Height

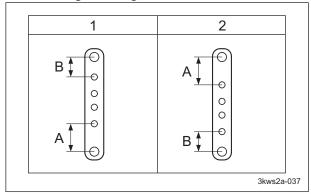
Adjustment of Rear Roller

The rear roller can be adjusted to 4 levels. Install the rear roller to the position with a cutting height range that is suitable for the required operation.

Important

The installation orientation of the roller bracket differs depending on the set cutting height.

- For a cutting height between 5.0 14.0 mm (0.197 - 0.551 in), install the roller bracket in the low cutting orientation.
- For a cutting height between 7.0 20.0 mm (0.276 0.787 in), install the roller bracket in the high cutting orientation.



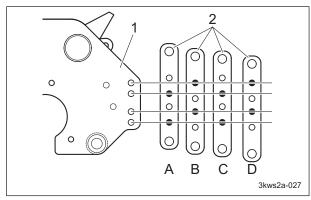
Adjustment of Rear Roller_001

1	High cutting orientation
2	Low cutting orientation
Α	Long
В	Short

Important

The illustration below shows the installation holes on the frame and the roller bracket installation hole bolt positions.

Install the bolts in the correct installation hole positions.

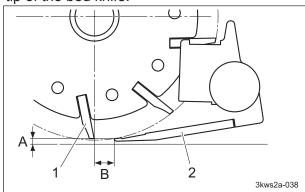


Adjustment of Rear Roller_002

1	Frame
2	Roller bracket
Α	5.0 - 10.0 mm (0.197 - 0.394 in)
В	5.0 - 14.0 mm (0.197 - 0.551 in)
С	7.0 - 16.0 mm (0.276 - 0.630 in)
D	12.0 - 20.0 mm (0.472 - 0.787 in)

Note:

When the same cutting height is used, the difference between A and B settings results in B having a longer offset distance than A. The offset distance refers to the horizontal distance from the reel cutter center line to the tip of the bed knife.



Adjustment of Rear Roller_003

1	Reel cutter
2	Bed knife
Α	Cutting height
В	Offset distance

The same goes for settings B and C and settings C and D.

If the roller bracket is not installed in a position in the desired cutting height range, follow the steps below to re-install the rear roller.

1. Remove the rear roller.

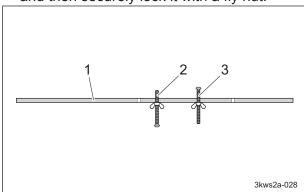
- Position the left and right roller brackets in the orientation and at the installation holes for the desired cutting height, and then install them.
- 3. Install the rear roller.

Adjustment of Front Roller

Important

Adjust the cutting height so that it is the same level on the right and left sides.

- 1. Attach the rear roller within the cutting height range at a position that suits your work requirements.
- 2. 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.

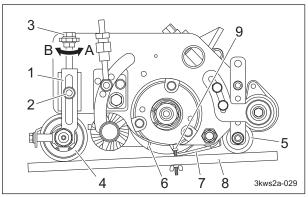


Adjustment of Front Roller_001

1	Cutting height gauge
2	Small screw for groomer setup
3	Small screw for cutting height setup

- 3. Loosen the nuts of the left and right front roller brackets.
- 4. Position the cutting height gauge against the front roller and rear roller at the edge on the left and right sides of the mower unit.
- 5. Adjust the cutting height with the left and right cutting height bolts on the front roller brackets.
 - To increase the cutting height:
 Turn the cutting height bolt in direction A to lower the front roller.

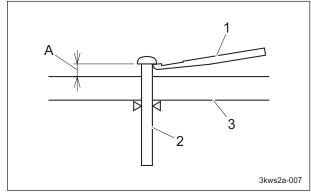
 To decrease the cutting height: Turn the cutting height bolt in direction B to raise the front roller.



Adjustment of Front Roller 002

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

6. Move the front roller up or down with the cutting height bolt to position the front roller so that there is no gap between the cutting edge and the small screw for cutting height setup in the cutting height gauge at the left and right edges of the bed knife (bottom blade).



Adjustment of Front Roller_003

1	Bed knife (bottom blade)
2	Small screw for cutting height setup
3	Cutting height gauge
Α	Cutting height

7. Follow the same steps to adjust the cutting height on the opposite side.

- 8. Tighten the nuts that secure the left and right front roller brackets to secure them firmly.
- 9. Again, make sure that the cutting height is set at the required position by positioning the cutting height gauge against the front roller and rear roller at the edge on the left and right sides of the mower unit.

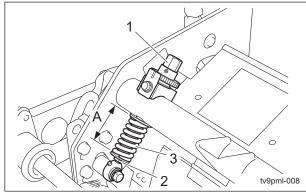
Adjustment of Cutter Spring

Adjust the cutter spring when the diameter of the reel cutter becomes small.

- 1. Adjust the blade engagement.
- 2. Adjust the nut so that the length of the spring coil of the cutter spring is approximately 50.0 mm (1.97 in).

If the length of the spring coil is longer than 50.0 mm (1.97 in), tighten the nut.

If the length of the spring coil is shorter than 50.0 mm (1.97 in), loosen the nut.



Adjustment of Cutter Spring_001

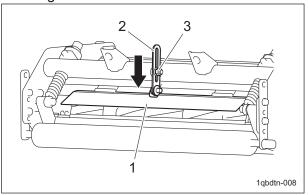
1	Blade engagement adjustment nut
2	Nut
3	Spring coil
Α	50.0 mm (1.97 in)

Adjustment of Reel Cover (Variable Type)

The angle of the reel cover can be adjusted. Raise or lower the reel cover open/close plate to adjust the angle of the reel cover.

To close the reel cover:

Loosen the nut, slide the plate downwards and tighten.

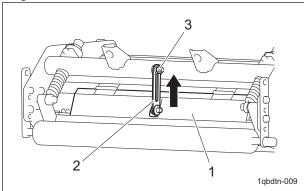


Adjustment of Reel Cover (Variable Type)_001

1	Reel cover
2	Plate
3	Nut

To open the reel cover:

Loosen the nut, slide the plate upwards and tighten.



Adjustment of Reel Cover (Variable Type)_002

1	Reel cover
2	Plate
3	Nut

Close the reel cover when mounting the grass catcher.

Adjustment of Groomer

Note:

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

Important

Adjust the groomer height so that it is the same level on the right and left sides.

Important

Set the groomer to a height of 5.0 mm (0.2 in) or more above the ground.

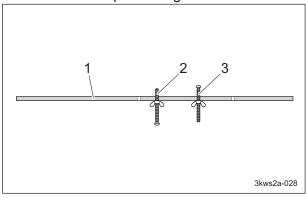
Using it lower than this height will damage the groomer shaft, bearings, gears or other parts.

Adjust the groomer height according to the grooming work.

Note:

While the groomer is not used, raise the groomer height.

1. Set the cutting height gauge groomer setting screw to the required height.

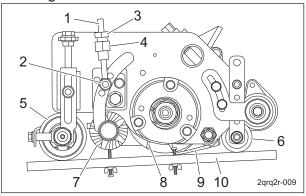


Adjustment of Groomer_001

1	Cutting height gauge
2	Groomer setting screw
3	Cutting height setting screw

- 2. Loosen the left and right groomer adjustment screw nut A.
- 3. Loosen the left and right nut B and nut C.

4. Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mower unit.

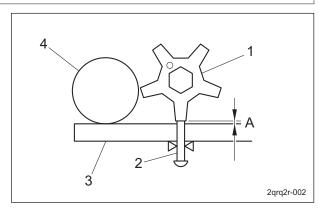


Adjustment of Groomer_002

1	Groomer adjustment screw
2	Nut A
3	Nut B
4	Nut C
5	Front roller
6	Rear roller
7	Dethatching blade
8	Reel cutter
9	Bed knife
10	Cutting height gauge

Important

Adjust the position so that the groomer setting screw can contact the dethatching blades.



Adjustment of Groomer_003

1	Dethatching blade
2	Groomer setting screw
3	Cutting height gauge
4	Front roller
Α	Groomer height

Adjust the groomer height by raising or lowering nut C.

- 6. Follow the same steps to adjust the groomer height on the opposite side.
- 7. Firmly tighten nut B and nut C.
- 8. Tighten groomer adjustment screw nut A.
- Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mower unit again, and check that the groomer is at the desired height.

Adjustment of CR Brush

Adjustment of CR Brush (CR Brush Only Installation)

Note:

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

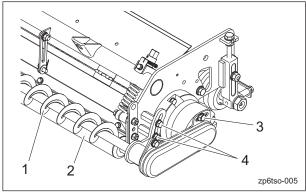
Important

Do not place the brush in contact with the rear roller too tightly. It will cause belt slip and break.

Important

The rotating CR brush prevents grass clippings, etc., from attaching to the rear roller.

- 1. Loosen bolt A.
- 2. Loosen the left and right bolts B.
- 3. Adjust the CR brush so that there is a clearance of 0 to 1.0 mm (0 to 0.039 in) between it and the rear roller, and then firmly tighten loosened bolt A and bolts B.



Adjustment of CR Brush (CR Brush Only Installation)_001

1	Brush
2	Rear roller
3	Bolt A
4	Bolt B

Adjustment of CR Brush (installed together with Groomer)

Note:

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

Important

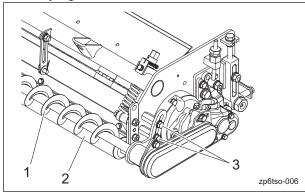
Do not place the brush in contact with the rear roller too tightly.

It will cause belt slip and break.

Important

The rotating CR brush prevents grass clippings, etc., from attaching to the rear roller.

- 1. Loosen the left and right bolts.
- 2. Adjust the CR brush so that there is a clearance of 0 to 1.0 mm (0 to 0.039 in) between it and the rear roller, and then firmly tighten the bolts.



Adjustment of CR Brush (installed together with Groomer)_001

	1	Brush
	2	Rear roller
	3	Bolt

Adjustment of Scraper

Adjustment of Front Scraper

Note:

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

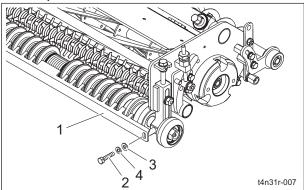
Important

Do not place the scraper in contact with the front roller too tightly.

It will cause deformation of the scraper and damage of the front roller.

The scraper prevents grass clippings, etc., from attaching to the front roller.

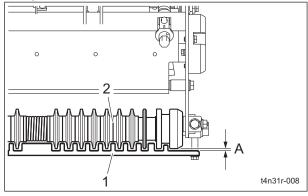
 Loosen the left and right bolts of the scraper.



Adjustment of Front Scraper_001

1	Scraper
2	Bolt
3	Washer
4	Spring washer

 Adjust the scraper so that there is a clearance of 2.0 to 3.0 mm (0.079 to 0.118 in) between it and the outer diameter surface of the front roller, and then firmly tighten the loosened bolts.



Adjustment of Front Scraper_002

1	Scraper				
2 Front roller					
Α	2.0 - 3.0 mm (0.079 - 0.118 in)				

Adjustment of Rear Scraper

Note:

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

Important

Do not place the scraper in contact with the rear roller.

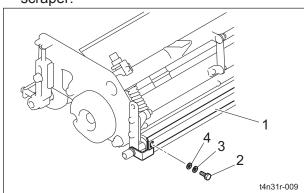
It will cause deformation of the scraper and damage of the rear roller.

Important

The rear scraper cannot be installed together with the CR brush.

The scraper prevents grass clippings, etc., from attaching to the rear roller.

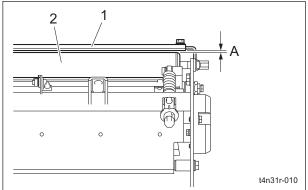
1. Loosen the left and right bolts of the scraper.



Adjustment of Rear Scraper_001

-	
1	Scraper
2	Bolt
3	Spring washer
4	Washer

2. Adjust the scraper so that there is a clearance of 1.0 to 2.0 mm (0.039 to 0.079 in) between it and the outer diameter surface of the rear roller, and then firmly tighten the loosened bolts.

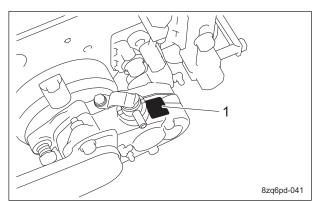


Adjustment of Rear Scraper_002

1	Scraper
2	Rear roller
Α	1.0 - 2.0 mm (0.039 - 0.079 in)

Operation Method

Positions of Operation Decals



Positions of Operation Decals_001

1	Groomer indication decal
	Groottici ilidication decai

Note:

The groomer indication decal for the mower unit equipped with left motor is different from that for the mower unit with right motor.

Description of Operation Decals

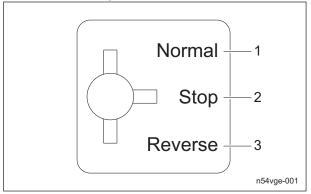
Groomer Indication Mark

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

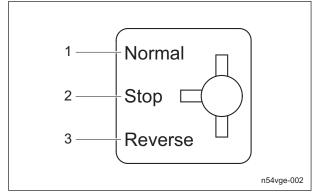
Groomer Indication Mark

Note:

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

K4203001680

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

Operation Method Page 4-15

Groomer Clutch Lever

Note:

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

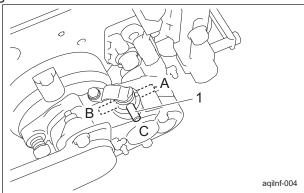


The lever should be operated while the engine is stopped, and adjusted to the position suitable for your work.

The groomer clutch lever is located on the upper side of the right or left 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.



Groomer Clutch Lever_001

1	Groomer clutch lever				
Α	Normal				
В	Reverse				
С	Stop				

Storage

Before Long-Term Storage

- 1. Cleaning
 - Remove dirt, grass clippings, oil stains etc. completely.
- 2. Oil filling
 - Grease and lubricate the appropriate points.
- 3. Storage location
 - · Cover the machine and store it in a dry place where it will not be exposed to rain.

Page 4-16 Storage

Maintenance Precautions	Page 5-2
Maintenance Schedule	Page 5-2
Adjusted Values	Page 5-3
Greasing	Page 5-4
About Greasing	Page 5-4
Greasing Points	Page 5-4
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Adjusting CAM	Page 5-6
Back Lapping	Page 5-7
Sharpening of Reel Cutter (Cutting Cylinder)	Page 5-8
Replacement of Reel Cutter (Cutting Cylinder)	Page 5-10
Replacement of Bed Knife (Bottom Blade)	Page 5-11
Adjustment of Belt Tension	Page 5-11

Maintenance Precautions



The chapter "Maintenance" in this manual describes practical measures which should be performed by a mechanic with expertise. The owner should instruct the mechanic with expertise to perform maintenance service for this machine.

▲ 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.

Maintain 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.

Maintenance Schedule

Follow the maintenance schedule below.

O · · · Inspect, adjust, supply, clean

Replace (first time)

△ · · · Replace

Maintenance Item		After Work	Every 10 hrs.	Every 50 hrs.	Every 250 hrs.	Every 500 hrs.	When Required	Remarks
Check blade condition (Reel cutter and Bed knife)	0							
Check cover condition	0							
Check roller condition	0							
Check support roller condition	0							
Check groomer condition	0							

Maintenance Item	Before Work	After Work	Every 10 hrs.	Every 50 hrs.	Every 250 hrs.	Every 500 hrs.	When Required	Remarks
Check CR brush condition	0							
Check scraper condition	0							
Check belt condition	0							
Check damaged parts	0							
Check tightening bolts and nuts	0							
Engage blades	0							
Check mowing height	0							
Adjust reel cover (Variable type)	0							
Adjust groomer	0							
Adjust CR brush	0							
Adjust scraper	0							
Clean mower unit		0						
Backlap blades							0	
Grease				0				Maintenance schedules differ according to greasing points
Clean inside of CR brush belt cover				0				
Grease hydraulic motor shaft of mower unit					0			
Grease cam bush						0		
Adjust cutter adjustment spring							0	
Adjust belt tension of CR brush							0	
Regrind blades (Reel cutter)							0	Grind/Replace blades as and when required

[·] The values for consumables are not guaranteed.

Adjusted Values

Cutter adjustment spring		50.0 mm (1.97 in)	Length of spring coil
CR brush With CR brush and groomer		0 - 1.0 mm (0 - 0.039 in)	Gap between brush and rear roller
Front scraper		2.0 - 3.0 mm (0.079 - 0.118 in)	Gap between scraper and outer diameter surface of roller
Rear scraper		1.0 - 2.0 mm (0.039 - 0.079 in)	Gap between scraper and roller
CR brush drive belt		h drive belt 5.0 - 6.0 mm (0.197 - 0.236 in)	

Maintenance Schedule Page 5-3

Greasing

About Greasing

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

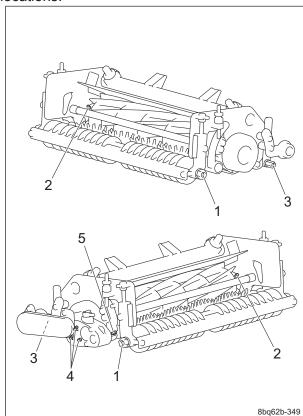
Add urea-based No. 2 grease in accordance with the Maintenance Schedule.

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

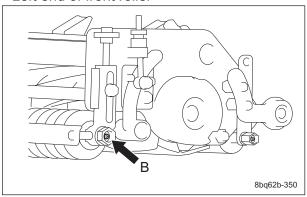
Croading rainta_do r				
	Location	No. of greasing points		asing riod
1	Front roller shaft	2	-	В
2	Reel housing	2	-	В
3	Rear roller shaft	2	-	В
4	Groomer case	3	Α	-
5	Groomer shaft	1	-	В

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

1. Front roller shaft

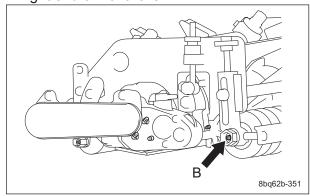
There is one point each on the left and right of the front roller shaft.

Left end of front roller



Greasing Points_002

Right end of front roller

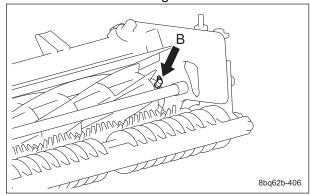


Greasing Points_003

2. Reel housing

There is one point each on the left and right of the reel housing.

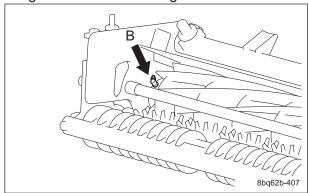
Left end of reel housing



Greasing Points_004

Page 5-4 Greasing

Right end of reel housing

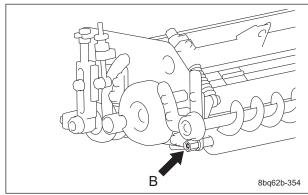


Greasing Points_005

3. Rear roller shaft

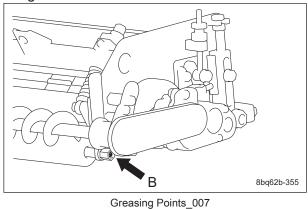
There is one point each on the left and right of the rear roller shaft.

Left end of rear roller



Greasing Points_006

Right end of rear roller

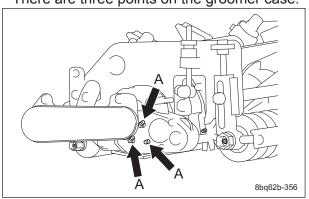


4. Groomer case

Note:

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

There are three points on the groomer case.



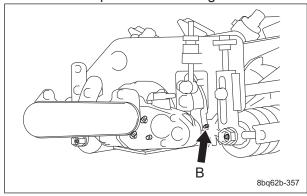
Greasing Points_008

5. Groomer shaft

Note:

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

There is one point beside the groomer case.



Greasing Points_009

Greasing Page 5-5

Maintenance Work

Cleaning of Mower Unit

Important

While cleaning, do not allow water on the sealed parts of the reel shaft. (Avoid high-pressure water cleaning.)

Otherwise, it may cause damage to the machine.

Be sure to clean the mower unit after use.

- 1. Stop the engine, and then remove the key.
- 2. Carefully clean the front and back of the mower unit with water or compressed air.
- 3. Remove any grass wrapped around the reel cutter (cutting cylinder).

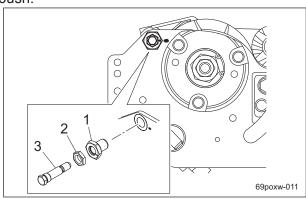
Adjusting CAM

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) by 0.1 mm (0.004 in), turn the left cam bush clockwise 30 degrees.
- 2. Once the adjustment completed, tighten the locknut securely.

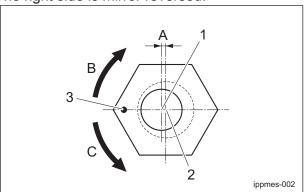
When the gap appears on the right side .:

- 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

	,
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.

Page 5-6 Maintenance Work

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, perform back lapping in the following procedure.



The reel cutter rotates during back lapping

Keep hands and feet away from moving parts.

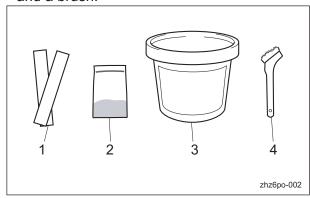


Be careful not to inhale exhaust gas during back lapping.



Do not perform back lapping work with any other persons.

1. Prepare newspaper cut into strip, abrasive with back lapping powder mixed with oil or gel compound (Baroness genuine abrasive), and a brush.



Back Lapping_001

1	Newspaper
2	Back lapping powder
3	Gel compound
4	Brush

Note:

The mixture ratio of the abrasive is 1 part back lapping powder (#150 - #200): 3-4 parts oil.

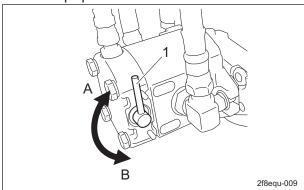
Caution

When handling the reel cutter or bed knife, wear gloves to protect your hands. Pay attention not to let the reel cutter catch your gloves, etc. Otherwise, your hand or fingers may be injured.

Important

Check sharpness with the blade engagement condition after cutting.

- 2. Raise all mower units.
- 3. Stop the engine, and then apply the parking
- 4. Set the reel rotation/stop switching lever to the "Stop" position.



Back Lapping_002

5=				
1	Reel rotation/stop switching lever			
А	Rotate			
В	Stop			

- 5. Insert two or three strips of newspaper into the space between the reel cutter and the bed knife at an angle of 90 degrees. Then, rotate the reel cutter counterclockwise (as seen from the left side of the mower unit) by hand to check the sharpness.
- 6. Check the sharpness along the entire reel cutter surface (around 3 to 4 positions).

Maintenance Work Page 5-7

- 7. Check the sharpness and mark areas that are sharp with chalk or similar.
- Set the reel rotation/stop switching lever of the hydraulic motors for the mower units that require back lapping to the "Rotation" position.

For mower units that do not require back lapping, set the lever to the "Stop" position.

9. Start the engine.

Note:

The engine will not start if the reel is set to rotate on the main vehicle side.

- 10. Lower all mower units to the ground.
- 11. Set the reel rotation to "Back lapping rotation (reverse)."
- 12. Run the engine at low speed.
- 13. Rotate the reel cutter for back lapping.
- 14. Adjust the rotation speed of the reel cutter with the reel rotation/stop switching lever.
- 15. Apply abrasive to a brush, and apply evenly to areas of the reel cutter that are sharp using the chalk markings as a guide. (Never apply it to areas that have poor sharpness.)
- 16. Keep the engine rotating for a while until there is no contact noise, and then stop the rotation of the reel cutter.
- 17. Raise all mower units.
- 18. Stop the engine.
- 19. Wash off the abrasive applied to the reel cutter or wipe it clean with waste cloth or similar, and check the sharpness.
- 20. Repeat the procedures from 4 through 19 for back lapping until the entire reel cutter surface (around 3 to 4 positions) is even.
- 21. Lower all mower units to the ground.
- 22. Next, apply abrasive across the entire reel cutter blade edge for final back lapping.
- 23. Stop the reel rotation.
- 24. Stop the engine.
- 25. Carefully wash off all the remaining abrasive completely.
- 26. Set the reel rotation to "Mowing rotation (normal)."
- 27. Return the reel rotation/stop switching lever to the "Stop" position.
- 28. Adjust the blade engagement while checking the sharpness.

Sharpening of Reel Cutter (Cutting Cylinder)

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 worn away.

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.



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 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).

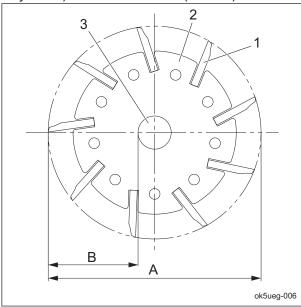
1. If the outer diameter of the reel cutter (cutting cylinder) after sharpening is more than the usage limit, the reel cutter (cutting cylinder) can be sharpened.

Page 5-8 Maintenance Work

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)	

Note:

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

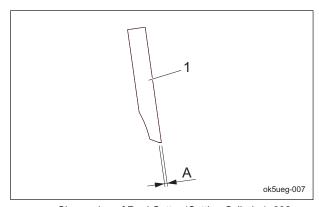


Sharpening of Reel Cutter (Cutting Cylinder)_001

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
	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

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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.

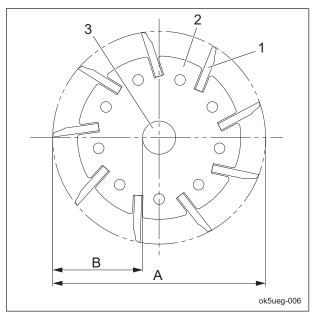
However, these criteria are only a reference and do not guarantee performance like that of a new reel cutter (cutting cylinder).

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

Ne	ew	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)	

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
А	Outer diameter of reel cutter (cutting cylinder)
В	Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft

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Replacement of Bed Knife (Bottom Blade)



Caution

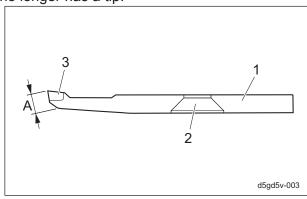
Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.



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



Replacement of Bed Knife (Bottom Blade)_001

	` /=
1	Bed knife (bottom blade)
2	Mounting hole
3	Tip
А	Front face

Adjustment of Belt Tension



♠ Warning

Be sure to stop the engine before adjusting the belts.



▲ Caution

If you have removed covers, etc., be sure to securely install them in their original positions. If covers, etc., remain removed, the operator may come in contact with rotating parts or belts, or foreign objects may fly off, possibly resulting in injuries.

Important

For the specified value of belt tension, refer to Adjusted Values.

After rotating the belt several times, check that it has the specified tension.

If the belt becomes slack due to frequent use, it may jump or slip.

In addition, if it is overtightened, it may wear prematurely.

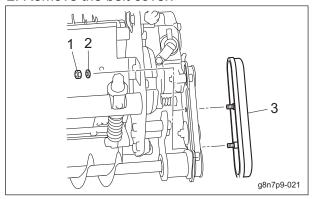
If necessary, adjust it, and always check the belt for appropriate tension.

CR Brush Drive Belt

Note:

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

- 1. Remove the nut and spring washer.
- 2. Remove the belt cover.



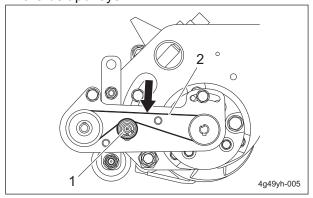
CR Brush Drive Belt_001

1	Nut
2	Spring washer
3	Belt cover

3. Check the belt tension.

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4. If the belt tension is inappropriate, adjust the tension pulley adjustment bolt. The belt tension is appropriate when there is 5.0 - 6.0 mm (0.197 - 0.236 in) of slack when the belt is pressed lightly by finger at 10.0 N (1.0 kgf) around the center between the belt pulleys.



CR Brush Drive Belt_002

1	Tension pulley adjustment bolt
2	Belt

5. Install the belt cover.

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