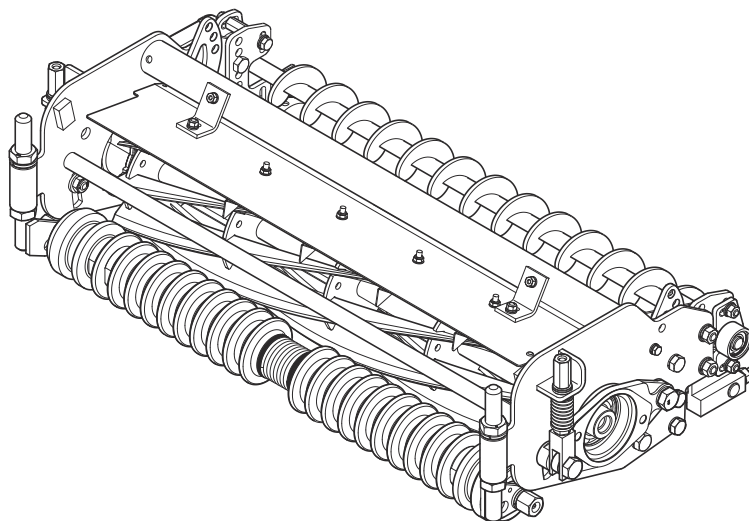


LS60 · LS62 · LS66

Standard Mower Unit

Owner's Operating Manual



Serial No. LS60: 10001- • LS62: 10231- • LS66: 11252-

"Required reading"

Read this manual before using the machine.

BARONESS[®]
Quality on Demand

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 Kyoisha.

When making inquiries about your product, please specify the model and serial number.

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

Kyoisha Co., Ltd.

Greeting

Thank you for purchasing the Baroness product.

This manual describes how to operate this product safely and correctly, as well as daily inspection and maintenance methods.

Prior to use, carefully read this manual to thoroughly understand the contents.

For handling the main vehicle, please refer to the owner's operating manual for the main vehicle.

We hope you will use the product safely and correctly, and take advantage of its best performance.

About This Manual

1. Attention

- [1] The operator is responsible for operating the product properly and safely.
Read this manual carefully to ensure that you thoroughly understand the contents, and to avoid causing injury to yourself or others.
- [2] Maintenance service for this product should be performed by a mechanic with expertise.
- [3] If you have any questions concerning handling, maintenance or genuine parts, please contact a Baroness dealer or Kyoisha.
- [4] When loaning or transferring the product, please also provide this manual together with the product.
- [5] When making inquiries about your product, please specify the model and serial number.

2. Notice

- [1] Due to product improvements or specification changes, the contents described in this manual may be altered without notice.
- [2] This manual has been prepared with the utmost care to avoid mistakes or omissions, however, if you find any mistakes or omissions, please contact a Baroness dealer or Kyoisha.
- [3] If you take this product out of the designated country for sale and use it, it may not comply with the regulations of the destination country or region (such as safety standards or radio laws), and it will not be covered by the warranty.
Furthermore, Kyoisha assumes no responsibility whatsoever for any troubles or penalties arising from these issues.
- [4] If the contents of this manual differ depending on the destination, the product details are explained using the ISO3166 country code (two characters).
Please check the applicable destination for your purchased model and read the relevant contents.
e.g.

Country	Country code
Japan	JP (*1)
USA	US
UK	GB (*2)
Australia	AU

(*1: Including South Korea and China)

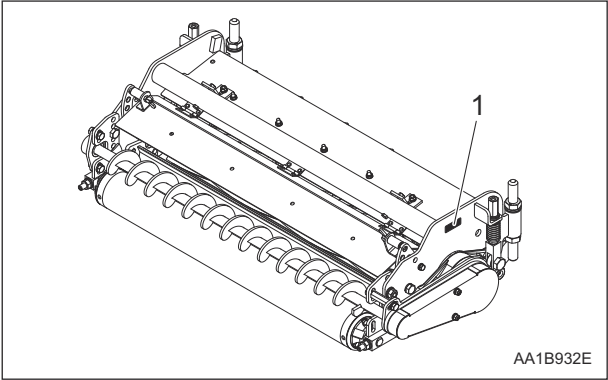
(*2: Including European countries)

- [5] Kyoisha assumes no responsibility for any damages or lost profits caused by improper handling by customers or third parties, product disassembly or modification, or other force majeure events (such as natural disasters).
- [6] Kyoisha assumes no responsibility for any loss or damage of data or programs caused by malfunctions, failures, or repairs of the equipment.
We recommend regularly backing up your important data.

Introduction

QR Code

(*QR Code is a registered trademark of DENSO WAVE INCORPORATED.)
A QR code for this mower unit is printed on the serial number plate.

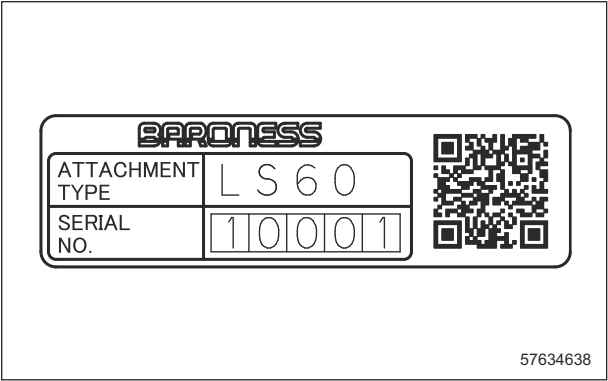


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1	QR code
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Scan the QR code with your smartphone for easy access to Baroness Manual Reference Service where you can browse Owner's Operating Manual and Parts Catalog.

LS60: <https://doc.baroness-international.com/manuals/LS60>



57634638

LS62: <https://doc.baroness-international.com/manuals/LS62>



9DFBEAC4

LS66: <https://doc.baroness-international.com/manuals/LS66>



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Warning Symbols

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

 696cq5-001	Warning symbol
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.  Warning This symbol indicates that serious injury or death may occur if the warning is ignored.  Caution 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

Caution

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 Kyoisha.

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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Contents

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

About RecyclePage 2-2

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.)

Product Overview

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Features of the STD Mower Unit Page 3-3

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DecalsPage 3-5

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Instruction Decals Page 3-5

Description of Safety Decals and
Instruction Decals Page 3-5

Product Overview

Specifications

Specifications List

LS60

Model		LS60			
Name		Standard Mower Unit			
Type		Base unit (incl. one weight)		With CR brush	
Dimensions	Total length	420 mm	16.54 in	←	←
	Total width	965 mm	37.99 in	987 mm	38.89 in
	Total height	233 mm	9.17 in	←	←
Weight	Mower Unit	61.0 kg	134.48 lb	65.4 kg	144.18 lb
	Weight (one piece)	2.0 kg	4.41 lb	-	-
	CR brush	-	-	4.4 kg	9.70 lb
Operating width (Mowing width)		766 mm	30 in	←	←
Operating height (Mowing height)	Roller Type	10.0 - 46.0 mm	0.39 - 1.81 in	←	←
	Wheel Type	20.0 - 50.0 mm	0.79 - 1.97 in	←	←
Number of Blades		5,7		←	
Diameter of the reel cutter		163 mm	6.4 in	←	←

LS62

Model		LS62			
Name		Standard Mower Unit			
Type		Base unit (incl. one weight)		With CR brush	
Dimensions	Total length	420 mm	16.54 in	←	←
	Total width	755 mm	29.72 in	776 mm	30.55 in
	Total height	233 mm	9.17 in	←	←
Weight	Mower Unit	50.0 kg	110.23 lb	52.0 kg	114.64 lb
	Weight (one piece)	2.0 kg	4.41 lb	-	-
	CR brush	-	-	2.0 kg	4.41 lb
Operating width (Mowing width)		557.5 mm	22 in	←	←
Operating height (Mowing height)	Roller Type	10.0 - 46.0 mm	0.39 - 1.81 in	←	←
	Wheel Type	-	-	-	-
Number of Blades		9		←	
Diameter of the reel cutter		163 mm	6.4 in	←	←

Product Overview

LS66

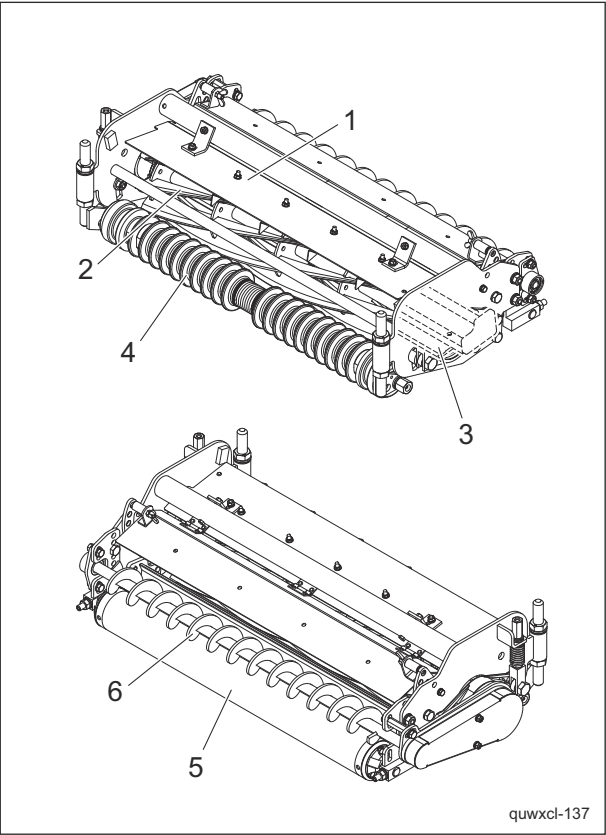
Model		LS66			
Name		Standard Mower Unit			
Type		Base unit (incl. one weight)		With CR brush	
Dimensions	Total length	420 mm	16.54 in	←	←
	Total width	857 mm	33.74 in	879 mm	34.61 in
	Total height	233 mm	9.17 in	←	←
Weight	Mower Unit	53.0 kg	116.84 lb	56.0 kg	123.46 lb
	Weight (one piece)	2.0 kg	4.41 lb	-	-
	CR brush	-	-	3.0 kg	6.61 lb
Operating width (Mowing width)		557.5 mm	22 in	←	←
Operating height (Mowing height)	Roller Type	10.0 - 46.0 mm	0.39 - 1.81 in	←	←
	Wheel Type	20.0 - 50.0 mm	0.79 - 1.97 in	←	←
Number of Blades		5,7,9		←	
Diameter of the reel cutter		163 mm	6.4 in	←	←

Features of the STD Mower Unit

1. Equipped with a 6.4-inch (163 mm) -diameter reel cutter (cutting cylinder).
2. Blade engagement can be adjusted by changing the reel cutter (cutting cylinder) position without changing the position and angle of the bed knife (bottom blade), and therefore the bed knife attitude does not change due to wear of the reel cutter.
3. The front roller is a grooved roller that will not press down the lawn.
4. Grass clippings can be discharged either forward or backward.
5. The grass catcher can be installed.
6. The CR brush can be installed onto the rear roller.
7. The scraper can be installed on the front and rear roller.

Product Overview

Names of Each Section

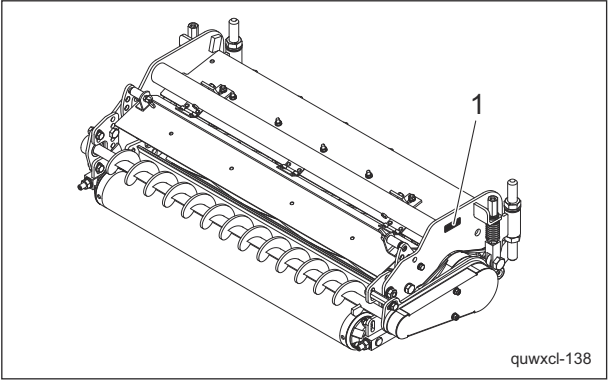


quwxcl-137

1	Reel cover
2	Reel cutter
3	Bed knife
4	Front roller
5	Rear roller
6	CR brush

Regulation Decals

Positions of Regulation Decals



quwxcl-138

1	Serial number plate
---	---------------------

Description of Regulation Decals

Serial Number Plate

The serial number plate indicates the model and serial number of the machine.
A QR code is also printed for browsing Owner's Operating Manual and Parts Catalog.
(*QR Code is a registered trademark of DENSO WAVE INCORPORATED.)



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Safety Signs and Instruction Signs

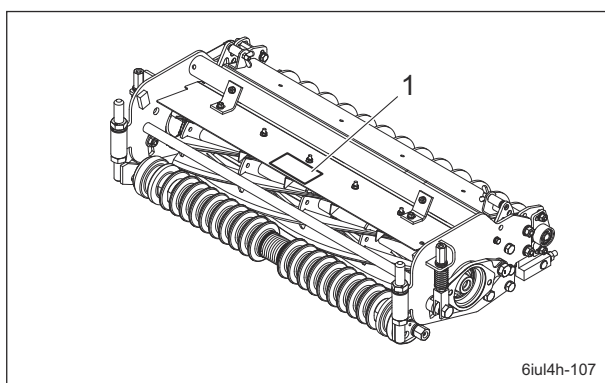
About Safety Decals and Instruction Decals

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.

Positions of Safety Decals and Instruction Decals



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1	Caution to mutilation decal
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Description of Safety Decals and Instruction Decals

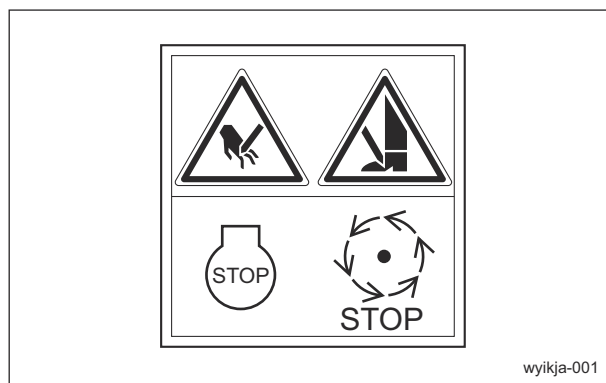
Caution to Mutilation Decal

K4205001600

DECAL, CAUTION TO MUTILATION

Warning

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



wyikja-001

Product Overview

Handling Instructions

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Inspection before Use Page 4-2

Inspection of Reel Cutter (Cutting
Cylinder) and Bed Knife (Bottom
Blade) Page 4-2

Inspection of Rollers Page 4-2

Inspection of Wheel Page 4-2

Inspection of Covers Page 4-2

Inspection of CR Brush Page 4-2

Inspection of Scraper Page 4-3

Inspection of Bolts and Nuts Page 4-3

Cleaning after Use Page 4-3

Cleaning of Mower Unit Page 4-3

Storage Page 4-3

Short-Term Storage Page 4-3

Handling Instructions

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.

Inspection before Use

The purpose of the machine inspection is to:

- Prevent accidents
- Prevent damage to the machine
- Maintain machine performance

Detecting machine malfunctions early helps prevent unexpected problems from occurring.

If you detect any abnormalities with the machine, immediately perform maintenance or repairs.

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

⚠ Caution

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

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.
3. Check to see how much the reel cutter (cutting cylinder) and the bed knife (bottom blade) are worn.
4. 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.

Inspection of Rollers

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 Wheel

1. Make sure that there is no wear and adhesion of the wheels.
2. Make sure that there is no play of the wheel shaft.
3. Make sure that there is no wear, damage and rust of the wheel shaft.

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 or the mechanic may come into contact with rotating parts or belts and foreign objects may fly off, possibly resulting in injuries.

1. 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.

Inspection of CR Brush

Note:

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

1. Make sure that there is no abrasion nor adhesion of the brush.

Handling Instructions

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.

Inspection of Scraper

Inspection of Front Scraper

Note:

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

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 (Wire Type)

Note:

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

1. Make sure that there are no breaks or sagging in the scraper (wire).
2. Make sure that there is no contact between the scraper and roller.

Inspection of Bolts and Nuts

Important

The bolts and nuts may be loosened at the earlier stage of the use.
Be sure to retighten or replace before operating the machine whenever there is any abnormality.

1. Check the bolts and nuts for looseness and coming off.
2. Check the bolts and nuts for cracks and damages.
3. Check the bolts and nuts for rust.
4. Check around the bolts and nuts for traces of rust fluid.
5. Check for unequal bolt length.
6. Check the bolts and nuts for stripped threads and abrasion.

Cleaning after Use

The purpose of the machine cleaning is to:

- Prevent accidents
- Prevent damage to the machine
- Maintain machine performance

Properly clean the machine to maintain its functionality and performance.

If you detect any abnormalities with the machine, immediately perform maintenance or repairs.

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.
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).

Storage

Short-Term Storage

Short-term storage means that the machine is temporarily stored (within 1 month) without use.

Follow the instructions below for short-term storage of the machine.

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

Handling Instructions

Precautions for MaintenancePage 5-2**Inspection and Cleaning Page 5-2**

Inspection of Belt Page 5-2

Cleaning Inside of Belt Cover Page 5-2

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Spring Page 5-9Adjustment of Reel Cover (Variable
Type)Page 5-9Adjustment of Reel Cover (Variable
Easy Latch Type) Page 5-9

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Sharpening of Reel Cutter (Cutting
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Cylinder) Page 5-15Replacement of Bed Knife (Bottom
Blade) Page 5-15**Storage Page 5-16**

Long-Term Storage Page 5-16

Precautions for Maintenance

Warning

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 operations you plan to perform.

Important

Use tools appropriate for each operation.

Important

Use Baroness genuine parts for replacement and accessories.
Our product warranty may be void if you use non-genuine parts for replacement or accessories.

Inspection and Cleaning

Inspect and clean the machine with the goals of the followings.

- Accident prevention
- Failure prevention
- Performance retention

Make efforts for early detection of the machine failure and prevention of the sudden occurrence of trouble.

Perform maintenance and repair works immediately if any abnormality is found in the machine.

Inspection of Belt

Caution

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 or the mechanic may come in contact with the rotating objects or belt, possibly resulting in injuries.

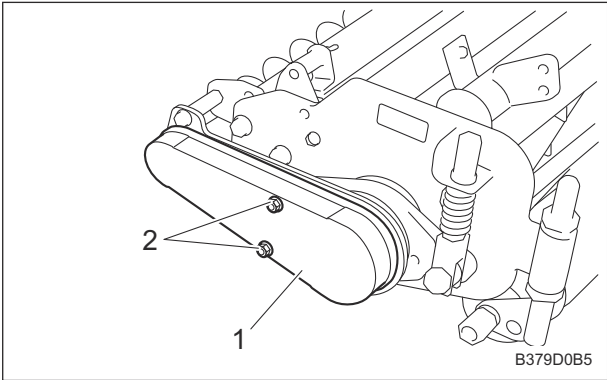
1. Press the middle of the belt with your finger to check the belt tension.
2. Make sure that there are no cracks, damage or abnormal wear.

Cleaning Inside of Belt Cover

Important

Clippings and dust etc. may come inside the belt cover and accumulate.
Clean inside the cover in accordance with the Maintenance Schedule.

1. Remove the nuts.
2. Remove the belt cover.
3. Clean inside the cover with compressed air to remove the accumulated clippings and dust etc.
4. Install the belt cover.
5. Install the nuts.



B379D0B5	
1	Belt cover
2	Nut

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".

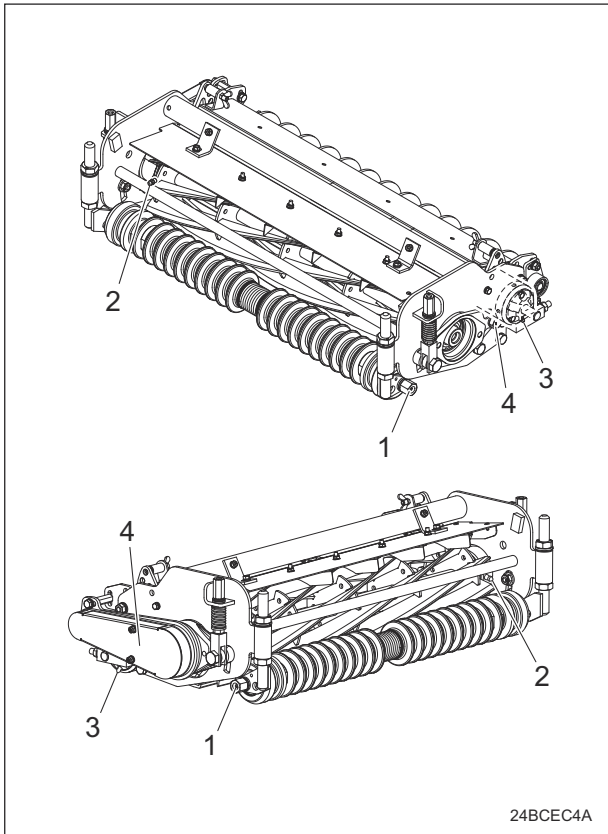
Add grease using the specified grease or lubricant.

Greasing Points

Grease nipples are installed in the following locations.

Add grease every 50 hours of operation.

However, for locations where a time is specified, add grease according to that schedule.



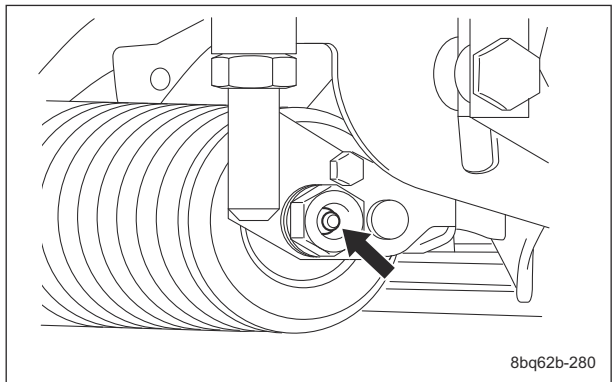
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	Location	No. of greasing points
1	Front roller shaft	2
2	Housing	2
3	Rear roller shaft	2
4	Reel housing spindle bolt	2

1. Front roller shaft

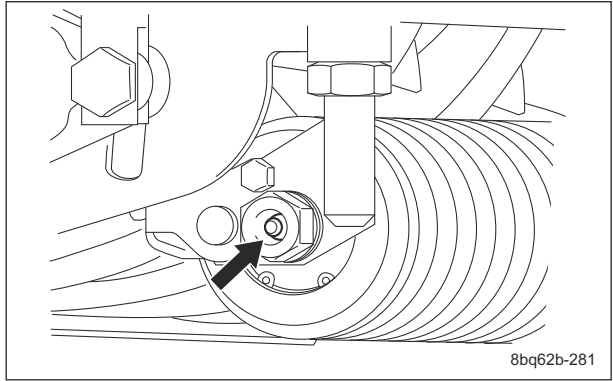
There is one point each on the left and right of the front roller shaft.

Left end of front roller



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Right end of front roller



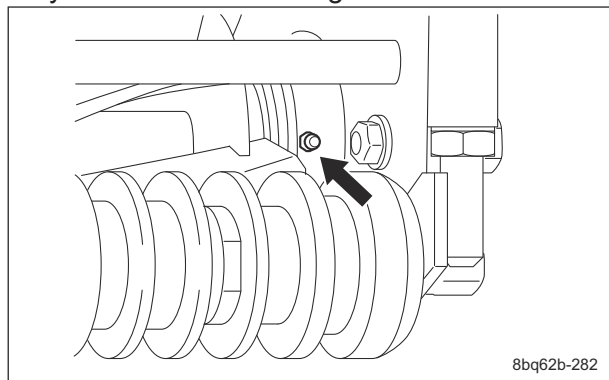
8bq62b-281

Maintenance

2. Housing

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

Hydraulic motor housing side



8bq62b-282

Reel housing side

Important

Always use a hand operated grease gun and only add a maximum of 2 pumps of grease every 50 hours.

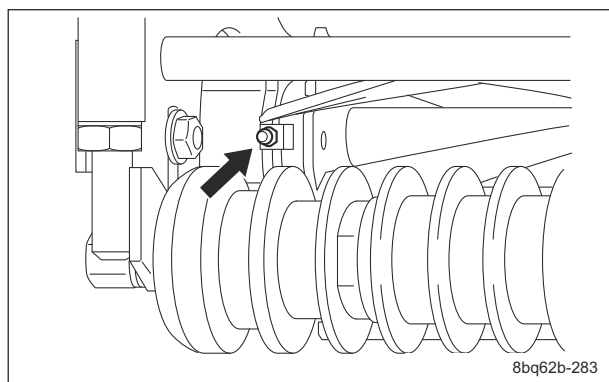
Using a power assisted grease gun should be avoided.

The grease capacity inside the reel housing on the CR brush mount side is approximately 25 g (0.05 lb).

If you repeat greasing by 2 g (0.004 lb) twelve times for 600 hours of operation, the grease amount inside the housing will almost reach its full capacity.

In case that the grease exceeds its capacity, the brush frame may project outward.

Therefore, remove the brush frame and discard the grease inside the reel housing when it reaches the capacity.

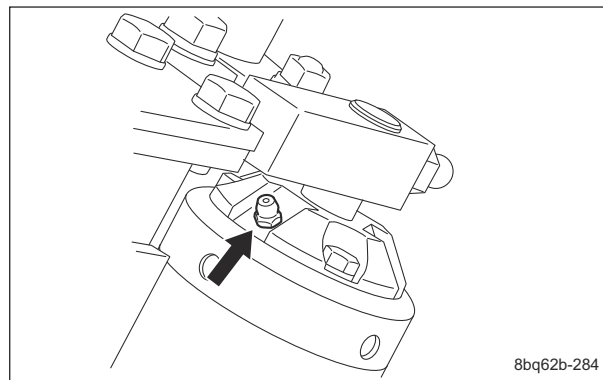


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3. Rear roller shaft

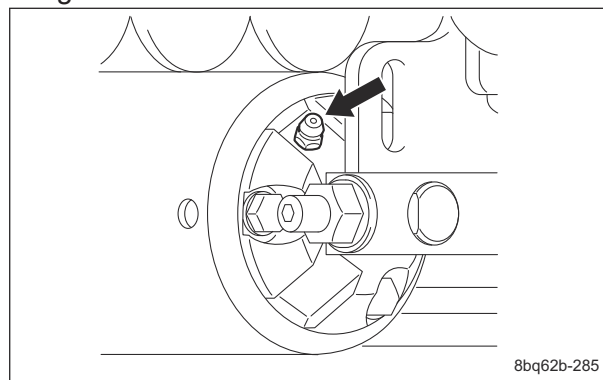
There is one point each on the left and right of the rear roller shaft.

Left end of rear roller



8bq62b-284

Right end of rear roller



8bq62b-285

4. Reel housing spindle bolt

There is one point each on the left and right of the mower unit.

Apply 0.5 g (0.001 lb) of grease to the reel housing spindle bolt according to the maintenance schedule.

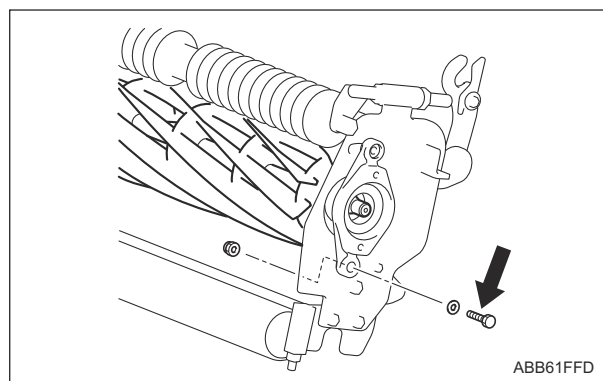


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Adjustment

Adjustment of Blade Engagement

⚠ Warning

Make sure that the parking brake is firmly applied before performing the operation.

⚠ Caution

Do not perform the operation with any other persons.

⚠ 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

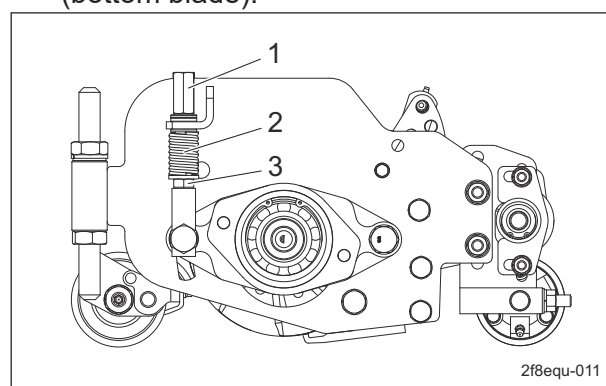
If the CR brush is installed, loosen the left and right bolts and nuts used to install the CR brush before adjusting the blade engagement. After adjusting the blade engagement, adjust the CR brush, and then firmly tighten the loosened bolts and nuts.

1. Stop the engine.
2. Shift the reel rotation/stop switching lever to the "Stop" position.
3. With the cutter adjustment nut, adjust the engagement between the reel cutter (cutting cylinder) and the bed knife (bottom blade) so that two or three strips of Takumi Paper (Baroness genuine paper strips) or newspaper 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 Takumi Paper or 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.

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) and the bed knife (bottom blade).



2f8equ-011

1	Cutter adjustment nut
2	Spring
3	Pipe with cutter adjustment screw

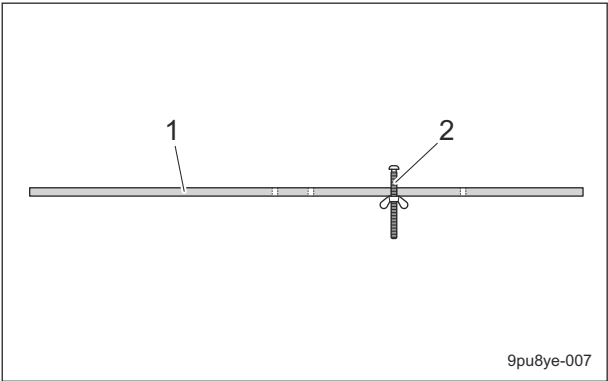
Adjustment of Cutting Height

Adjustment of Cutting Height (Roller Type)

 **Caution**

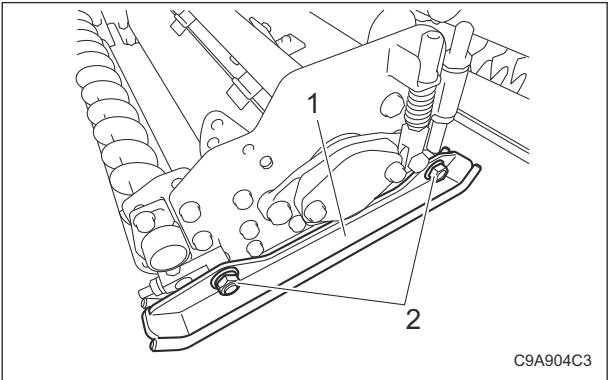
Do not perform the operation with any other persons.

- Follow the steps below to adjust the cutting height to fit your cutting work.
1. Set the slide caliper to the required cutting height, adjust the neck position of the small screw for cutting height setup of the cutting height gauge and securely lock with a fly nut.



9pu8ye-007	
1	Cutting height gauge
2	Small screw for cutting height setup

2. Loosen the fixing nuts for the runners.
(when the runners is installed)

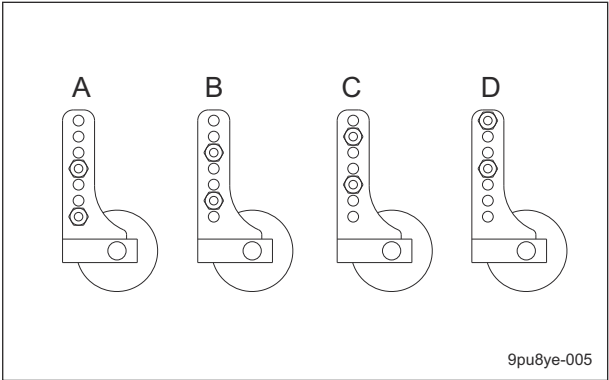


C9A904C3	
1	Runners
2	Nut

Important

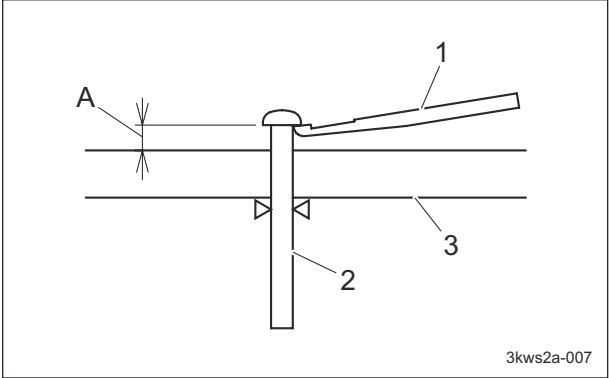
When the grass catcher is installed on LM351, the cutting height cannot be set to A.

3. Install the rear roller to the position of the required cutting height range.
The rear roller can be adjusted to one of four settings.
Note:
With the same cutting height for settings A and B, the clippings volume with B will be larger since the offset distance is longer. The same goes for settings B and C and settings C and D.



9pu8ye-005	
A	10 - 17 mm (0.39 - 0.67 in)
B	10 - 33 mm (0.39 - 1.30 in)
C	21 - 39 mm (0.83 - 1.54 in)
D	28 - 46 mm (1.10 - 1.81 in)

4. Apply the cutting height gauge to the front and rear rollers at the left or right edge of the mower unit.
5. Adjust the front roller up and down by the roller adjuster to determine the position of the front roller, in order not to have a gap with the neck position of the small screw for cutting height setup of the cutting height gauge, at the edge of the bed knife.



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

• To increase cutting height:

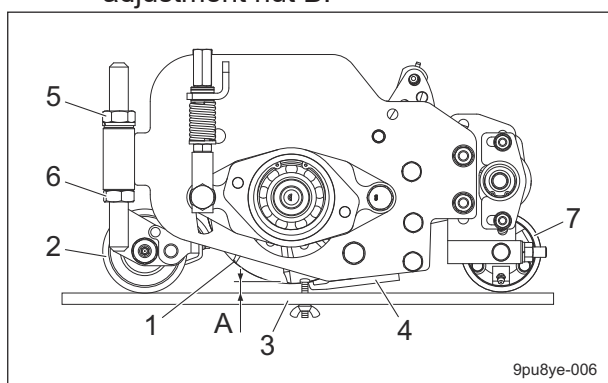
[1] Loosen cutting height adjustment nut A, tighten cutting height adjustment nut B, and then lower the front roller.

[2] Use the cutting height gauge to determine the cutting position, and then firmly tighten cutting height adjustment nut A.

• To decrease cutting height:

[1] Loosen cutting height adjustment nut B, tighten cutting height adjustment nut A, and then raise the front roller.

[2] Use the cutting height gauge to determine the cutting position, and then firmly tighten cutting height adjustment nut B.



9pu8ye-006

1	Reel cutter (cutting cylinder)
2	Front roller
3	Cutting height gauge
4	Bed knife (bottom blade)
5	Cutting height adjustment nut A
6	Cutting height adjustment nut B
7	Rear roller
A	Cutting height

6. Repeat the same procedure at the edge of the opposite side of the mower unit (left or right edge) for the adjustment of cutting height.

7. Again, make sure that the cutting height is at the required position by applying the cutting height gauge to the front and rear rollers at each edge of left and right of the mower unit.

8. Tighten the fixing nuts for the runners.
(when the runners is installed)

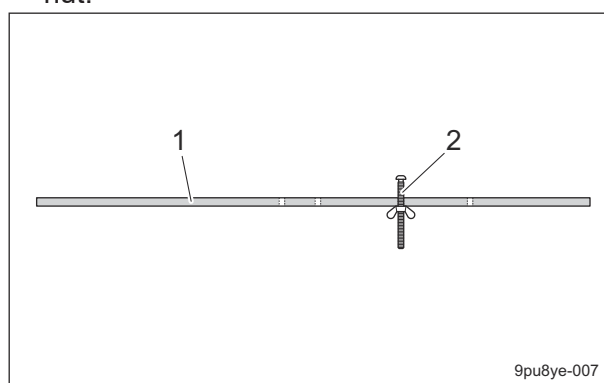
Adjustment of Cutting Height (Wheel Type)

⚠ Caution

Do not perform the operation with any other persons.

Follow the steps below to adjust the cutting height to fit your cutting work.

1. Set the slide caliper to the required cutting height, adjust the neck position of the small screw for cutting height setup of the cutting height gauge and securely lock with a fly nut.



9pu8ye-007

9pu8ye-007

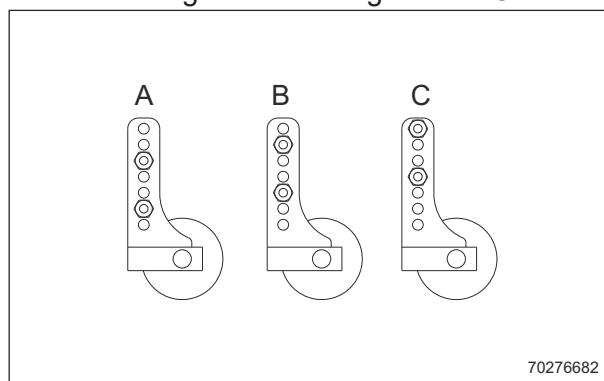
1	Cutting height gauge
2	Small screw for cutting height setup

2. Install the rear roller to the position of the required cutting height range.

You can adjust the rear roller to one of three levels.

Note:

With the same cutting height for settings A and B, the clippings volume with B will be larger since the offset distance is longer. The same goes for settings B and C.

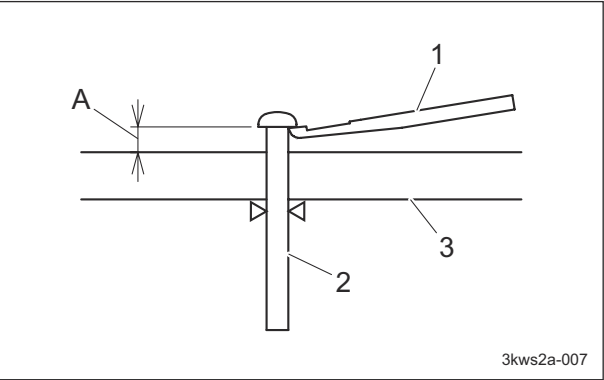


70276682

70276682

A	20 - 35 mm (0.79 - 1.38 in)
B	27 - 45 mm (1.06 - 1.77 in)
C	35 - 50 mm (1.37 - 1.97 in)

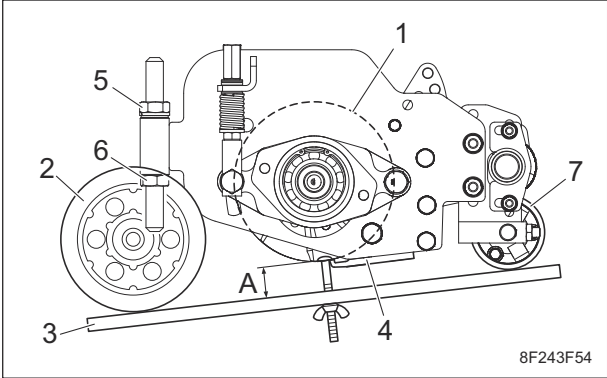
- 3. Apply the cutting height gauge to the wheel and rear roller at the left or right edge of the mower unit.
- 4. Adjust the wheel up and down to determine the position of the wheel, in order not to have a gap with the neck position of the small screw for cutting height setup of the cutting height gauge, at the edge of the bed knife.



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

- To increase cutting height:
 - [1] Loosen cutting height adjustment nut A, tighten cutting height adjustment nut B, then lower the wheel.
 - [2] Use the cutting height gauge to determine the position, then tighten cutting height adjustment nut A securely.
- To decrease cutting height:
 - [1] Loosen cutting height adjustment nut B, tighten cutting height adjustment nut A, then raise the wheel.

- [2] Use the cutting height gauge to determine the position, then tighten cutting height adjustment nut B securely.



8F243F54

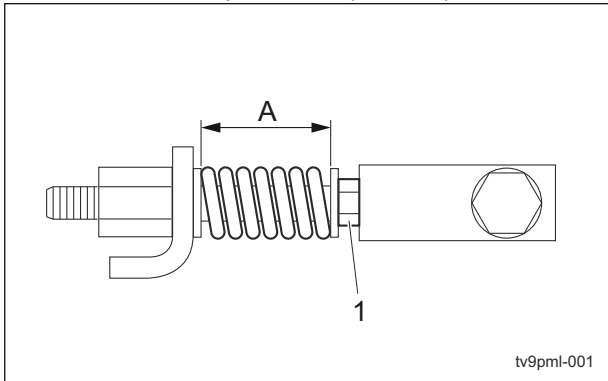
1	Reel cutter (cutting cylinder)
2	Wheel
3	Cutting height gauge
4	Bed knife (bottom blade)
5	Cutting height adjustment nut A
6	Cutting height adjustment nut B
7	Rear roller
A	Cutting height

- 5. Repeat the same procedure at the edge of the opposite side of the mower unit (left or right edge) for the adjustment of cutting height.
- 6. Again, make sure that the cutting height is at the required position by applying the cutting height gauge to the wheel and rear roller at each edge of left and right of the mower unit.

Adjustment of Cutter Adjustment Spring

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

1. Adjust the blade engagement.
2. Loosen the pipe with cutter adjusting screw, and then adjust the length of the spring coil to approximately 40 mm (1.57 in).



tv9pml-001

1	Pipe with cutter adjusting screw
A	40 mm (1.57 in)

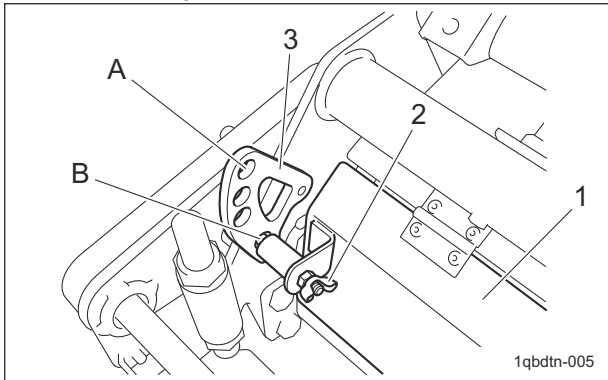
Adjustment of Reel Cover (Variable Type)

Note:

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

The angle of the reel cover can be adjusted. The opening angle of the reel cover can be set to one of three positions in 15-degree increments.

1. Pull the left and right knobs securing the reel cover in order to release it.
2. Secure the reel cover to a different hole in the cover adjustment plate.



1qbdtn-005

1	Reel cover
2	Knob
3	Cover adjustment plate
A	Fully open
B	Fully closed

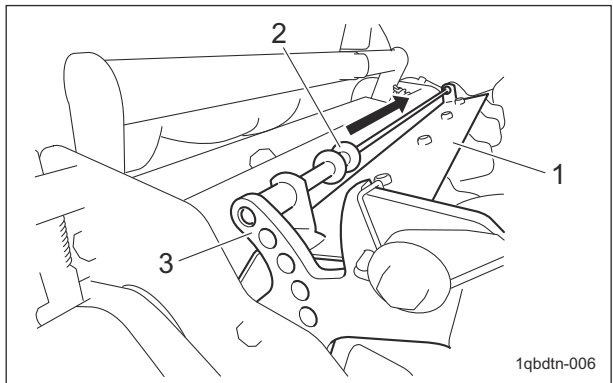
Adjustment of Reel Cover (Variable Easy Latch Type)

Note:

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

The angle of the reel cover can be adjusted. The opening angle of the reel cover can be set to one of six positions in 12.5-degree increments.

1. Pull the rod connecting the left and right knobs securing the reel cover in order to release the cover.



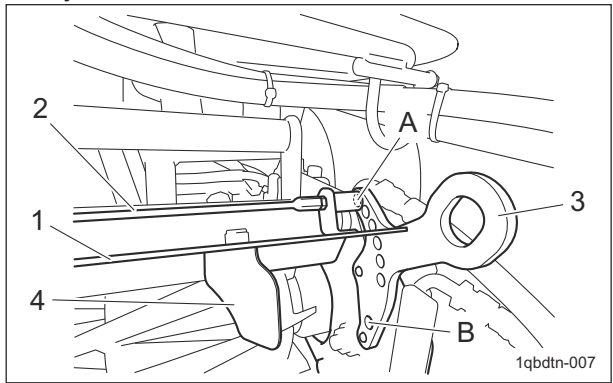
1qbdtn-006

1	Reel cover
2	Rod
3	Cover adjustment plate

2. Secure the reel cover to a different hole in the cover adjustment plate.

Note:

If the fin is installed, the reel cover cannot be fully closed.



1qbdtn-007

Maintenance

1	Reel cover
2	Rod
3	Cover adjustment plate
4	Fin
A	Fully open
B	Fully closed

Adjustment of CR Brush

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

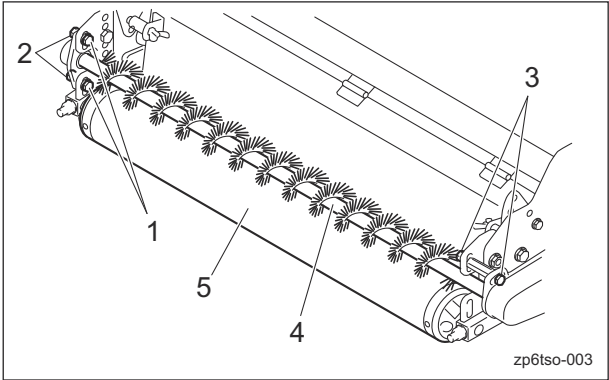
Important

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 bolts A, bolts B and nuts used to install the CR brush.
2. Adjust the CR brush so that there is a clearance of 0 to 1 mm (0 to 0.039 in) between it and the rear roller, and then firmly tighten the loosened bolts and nuts.



zp6tso-003

1	Bolt A
2	Nut
3	Bolt B
4	Brush
5	Rear roller

Adjustment of Scraper

Adjustment of Front Scraper

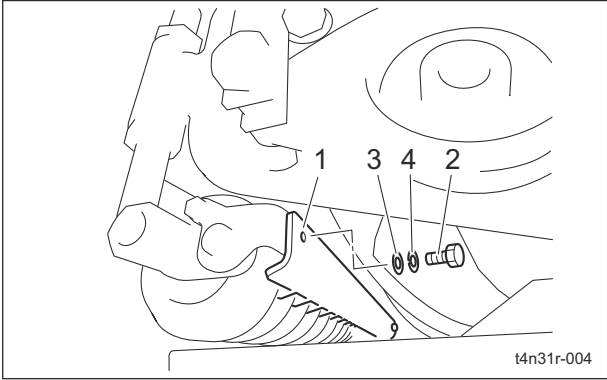
Note:
Depending on the specifications, this function may not be available.

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.

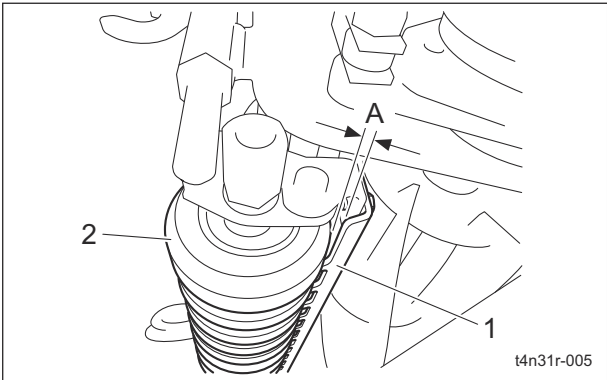
1. Loosen the left and right bolts of the scraper.



t4n31r-004

1	Scraper
2	Bolt
3	Washer
4	Spring washer

2. Adjust the scraper so that there is a clearance of 2 to 3 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 and nuts.



t4n31r-005

1	Scraper
2	Front roller
A	2 - 3 mm (0.079 - 0.118 in)

Adjustment of Rear Scraper (Wire Type)

Note:

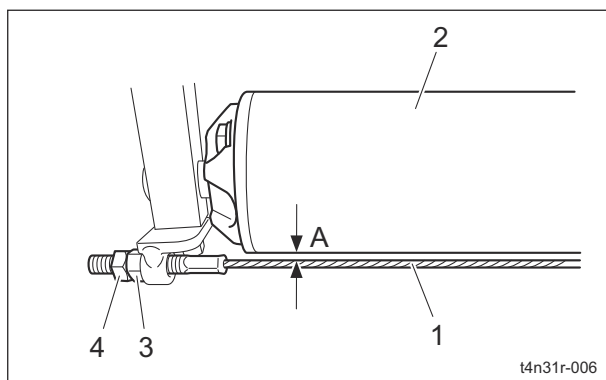
Depending on the specifications, this function may not be available.

Important

Do not place the scraper in contact with the rear roller too tightly.
It will cause the scraper break and slack.

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

1. Loosen the left and right lock nuts and nuts of the scraper.
2. Adjust the scraper so that there is a clearance of 2 to 3 mm (0.079 to 0.118 in) between it and the rear roller, and then secure it with the lock nuts.



t4n31r-006

1	Scraper
2	Rear roller
3	Nut
4	Lock nut
A	2 - 3 mm (0.079 - 0.118 in)

Adjustment of Belt Tension

Warning

Be sure to stop the engine before adjusting the belts.

Warning

If you have removed covers, etc., be sure to securely install them in their original positions. If covers, etc., remain removed, the operator or the mechanic 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.
Check belt tension after rotating the belt several times.

Adjustment of CR Brush Drive Belt

Note:

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

1. Remove the belt cover.
2. Check the belt tension.

The criterion for the belt tension is that the belt slacks approximately 5 mm (0.20 in) when you apply a force of 10 N (1.0 kgf) with your finger to the belt at the middle point between the pulleys.

3. If the belt tension is not at the approximate value, follow the steps below.

[1] Loosen the tension pulley adjustment bolt.

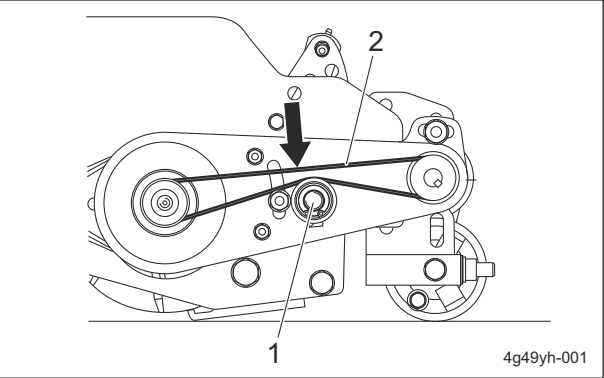
[2] Move the tension pulley up and down to adjust the belt tension to the approximate value.

[3] Tighten the tension pulley adjustment bolt to secure it.

4. Check the belt tension again.

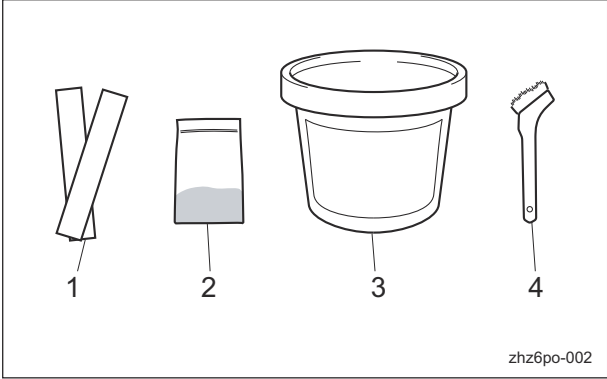
If the belt tension is still not at the approximate value after repeating the adjustment several times, replace the belt with a new one.

5. Install the belt cover.



1	Tension pulley adjustment bolt
2	Belt

1. Prepare strips of Takumi Paper (Baroness genuine paper strips) or newspaper, abrasive with back lapping powder mixed with oil or gel compound (Baroness genuine abrasive), and a brush.



1	Takumi Paper or newspaper
2	Back lapping powder
3	Gel compound
4	Brush

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.

Warning

The reel cutter rotates during back lapping work.
Keep hands and feet away from moving parts.

Caution

Be careful not to inhale exhaust gas during back lapping.

Caution

Do not perform back lapping work with any other persons.

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 brake.
4. Set the reel rotation/stop switching lever to the "Stop" position.
5. Insert two or three strips of Takumi Paper or 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).

7. Check the sharpness and mark areas that are sharp with chalk or similar.
8. 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.

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

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

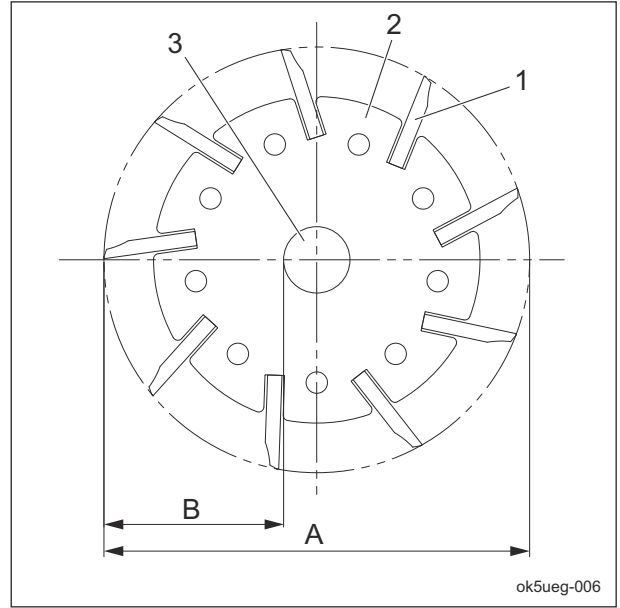
The criteria for sharpening the reel cutter (cutting cylinder) are described below. However, these criteria are only a reference and do not guarantee performance of a reel cutter (cutting cylinder).

Maintenance

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.

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)
163 mm (6.42 in)	68.8 mm (2.71 in)	143 mm (5.63 in)	58.8 mm (2.31 in)

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



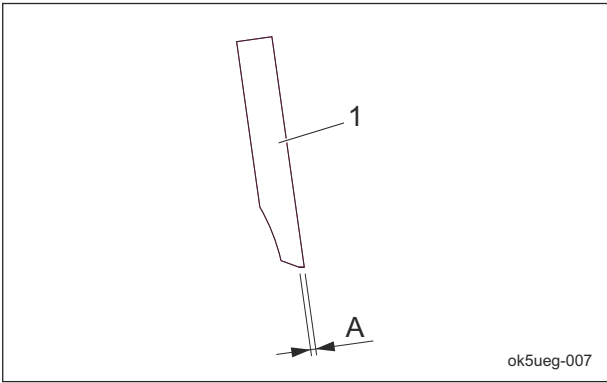
ok5ueg-006

1	Reel cutter (cutting cylinder) blade
2	Reel cutter (cutting cylinder) disc
3	Reel cutter (cutting cylinder) shaft
A	Outer diameter of reel cutter (cutting cylinder)
B	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)
163 mm (6.42 in)	3.0 mm (0.12 in) (factory-recommended)



ok5ueg-007

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

Replacement of Reel Cutter (Cutting Cylinder)

⚠ 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

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

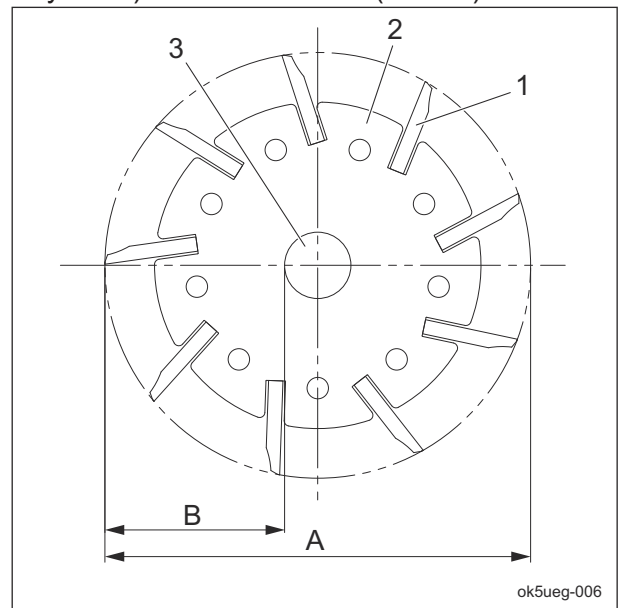
The criteria for replacing the reel cutter (cutting cylinder) are described below. However, these criteria are only a reference and do not guarantee performance like that of a new reel cutter (cutting cylinder).

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)
163 mm (6.42 in)	68.8 mm (2.71 in)	143 mm (5.63 in)	58.8 mm (2.31 in)

Note:

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



ok5ueg-006

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

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.

⚠ Caution

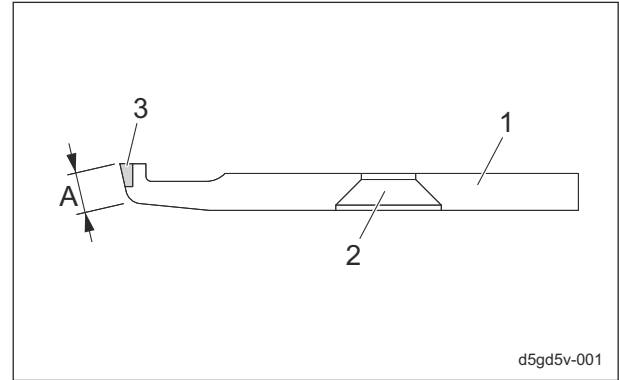
Wear gloves when touching edged tools to avoid cutting your hands.

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

Maintenance

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



d5gd5v-001

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

Storage

Long-Term Storage

Follow the instructions below for long-term storage of the machine.

- 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.

Appended Table

Tightening Torques	Page 6-2
Standard Tightening Torques	Page 6-2
Principal Tightening Torques	Page 6-4
Daily Check List	Page 6-5
Maintenance Schedule	Page 6-6
List of Adjusted Values	Page 6-6

Appended Table

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.

Appended Table

Nominal diameter	General bolt		
	Strength classification 4.8		
	   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

Nominal diameter	Heat-treated bolt					
	Strength classification 8.8			Strength classification 10.9		
	   tib3yb-002			   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	13,663.98	11,860.34

Note:

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

Appended Table

Principal Tightening Torques

Tightening Torque by Model

LS60/LS66/LS62

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).

Location	Code	Part name	Tightening torque			Thread locking adhesive
			N-m	kgf-cm	lb-in	
Bed knife	K0071001182	SCREW, HT FLAT HEAD M10-16	29 - 38	295.71 - 387.49	256.68 - 336.34	-

Appended Table

Daily Check List

LS60/LS62/LS66

- • • • Inspect, adjust, supply, clean (first time)
- • • • Inspect, adjust, supply, clean
- ▲ • • • Replace (first time)
- △ • • • Replace

Maintenance Item		Before Work	After Work	Remarks
Mower unit	Check blade (Reel cutter and Bed knife)	○		
	Check roller	○		
	Check wheel	○		
	Check cover	○		
	Check scraper	○		
	Check mower unit exterior	○		
	Check bolts and nuts	○		
	Clean mower unit		○	

Appended Table

Maintenance Schedule

LS60/LS62/LS66

● . . . Inspect, adjust, supply, clean (first time)

○ . . . Inspect, adjust, supply, clean

▲ . . . Replace (first time)

△ . . . Replace

Maintenance Item		Before Work	After Work	Every 50 hrs.	Every 500 hrs.	Every year	When Required	Remarks
Mower unit	Check engage blades	○						
	Check mowing height	○						
	Check of CR brush belt			○				
	Clean inside of CR brush belt cover			○				
	Grease			○				
	Grease spindle bolt of reel housing				○	○		Every 500 hours or every year whichever comes earlier, and when replacing a reel cutter additionally
	Backlap blades		○				○	Manufacturer recommends after work
	Engage blades						○	
	Adjust mowing height						○	
	Adjust cutter adjustment spring						○	
	Adjust reel cover (Variable type)						○	
	Adjust CR brush						○	
	Adjust scraper						○	
	Adjust drive belt tension of CR brush						○	
	Regrind reel cutter						○	

List of Adjusted Values

Cutter adjustment spring	40 mm (1.57 in.)	Length of spring coil
CR brush	0 - 1 mm (0 - 0.039 in)	Clearance between brush and rear roller
Front scraper	2 - 3 mm (0.079 - 0.118 in)	Clearance between scraper and outer diameter surface of roller
Rear scraper	2 - 3 mm (0.079 - 0.118 in)	Clearance between scraper and roller
CR brush drive belt	5 mm (0.20 in)	Slack when belt pressed with 10 N (1.0 kgf) at the middle point between pulleys

Records

Daily Check Records Page 7-2

Maintenance RecordsPage 7-3

Records

Daily Check Records

LS60/LS62/LS66
Use this table freely for your records of the daily check.

Model		Serial Number									
Items											
Mower unit	Check blade (Reel cutter and Bed knife)										
	Check roller										
	Check wheel										
	Check cover										
	Check scraper										
	Check mower unit exterior										
	Check bolts and nuts										
	Clean mower unit										

Maintenance Records

LS60/LS62/LS66

Use this table freely for your records of the maintenance.

Model		Serial Number									
Mower unit	Check engage blades										
	Check mowing height										
	Check of CR brush belt										
	Clean inside of CR brush belt cover										
	Grease										
	Grease spindle bolt of reel housing										
	Backlap blades										
	Engage blades										
	Adjust mowing height										
	Adjust cutter adjustment spring										
	Adjust reel cover (Variable type)										
	Adjust CR brush										

Records

Items											
Mower unit	Adjust scraper										
	Adjust drive belt tension of CR brush										
	Regrind reel cutter										



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