"Required reading"
Read this manual and the Owner's Manual for the engine before using the machine.
California Proposition 65
(For California, USA)

⚠️ WARNING:
This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Spark Arrester
(For California, USA)

⚠️ Warning
Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

The engine of this machine is equipped with a spark arrester. In some areas there are local, state, or federal regulations requiring that a spark arrester be used on the engine of this machine.
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.
Read this manual carefully to ensure that you thoroughly understand how to properly operate and maintain the product, and to avoid causing injury to yourself or others.
The operator is responsible for operating the product properly and safely.
Maintenance should only be performed by a certified specialist.
If you have any questions concerning maintenance or genuine parts, please contact a Baroness dealer or Kyoeisha.
When making inquiries about the product, please specify the product’s model designation and serial number.
When loaning or transferring the product, please also provide this manual together with the product.

Kyoeisha Co., Ltd.

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

![Warning symbol](696cq5-001)

This symbol indicates the articles regarding “Danger,” “Warning,” or “Caution.”
Those articles describe important safety precautions and so read them carefully to understand completely before operating the machine.
Failure to adequately follow these safety precautions may cause an accident.

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

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

Prior to use, carefully read the following manuals to thoroughly understand the contents for safe and correct operation.
- Baroness Owner's Operating Manual
- The Engine's Owner's Manual

Purpose

This machine is intended for cutting turf grass at golf courses.
Do not use this machine in any way other than its intended purpose, and do not modify the machine.
Operating this machine for other purposes and modifying it may be very dangerous and may cause damage to the machine.
Introduction
Safe Operating Practices ...................... Page 1-2

   Training ..................................................Page 1-2
   Preparation ............................................ Page 1-2
   Operation ...............................................Page 1-3
   Maintenance and Storage ....................... Page 1-4
Failure to adequately follow these safety precautions may cause an accident resulting in injury or death.

**Danger**

This product is designed to ensure safe operation and has been tested and inspected thoroughly before shipment from the factory. The product is equipped with safety devices to prevent accidents. However, whether the product demonstrates its original performance level depends on the manner in which it is operated and handled, as well as the manner in which it is managed on a daily basis. Inappropriate use or management of the product may result in injury or death. Observe the following safety instructions to ensure safe operation.

**Safe Operating Practices**

**Training**

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

**Preparation**

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

**Warning**

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

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

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
2. Only operate in good light, keeping away from holes and hidden hazards.
3. Before attempting to start the engine, disengage all attachments, shift into neutral, and engage the parking brake.
4. Start the engine or switch on the motor carefully according to this manual and with feet well away from the blade(s).
5. Avoid operating the equipment in wet grass, where feasible.
6. Always be sure of your footing on slopes.
7. Walk, never run.
8. Remember there is no such thing as a safe slope. Travel on grass slopes requires particular care.
   To guard against overturning:
   [2] Do not stop or start suddenly when going up or downhill.
9. Use extra care while operating machine with a grass catcher or other attachments. They can affect the stability of the machine.
10. Never operate the machine with damaged guards, shields, or without safety protective devices in place.
    Be sure all interlocks are attached, adjusted and functioning properly.
11. Do not change the engine governor settings or overspeed the engine.
    Operating the engine at excessive speed may increase the hazard of personal injury.
12. Pay attention not to touch hot parts.
13. Do the following before leaving the operator's position.
    [1] Stop on level ground.
    [2] Disengage the cutting unit and traction drive;
    [3] Set the parking brake;
14. Stop the engine in the following conditions.
    [3] Before making height adjustment unless adjustment can be made from the operator's position.
    [5] Before checking, cleaning, or working the machine.
    [7] After striking a foreign object or if an abnormal vibration occurs. Inspect the machine for damage and make repairs before restarting and operating the equipment.
15. Keep hands and feet away from the cutting units and the rotating parts.
16. Never pick up or carry a lawn mower while the engine is running.
17. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
18. Never operate while people, especially children, or pets are nearby.
19. Slow down and use caution when making turns and crossing roads and sidewalks.
20. Stop the blades rotating before crossing surfaces other than grass.
21. Disengage drive to attachments when transporting or not in use.
22. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
23. Do not operate the machine under the influence of alcohol or drugs.
24. Take care when loading or unloading the machine into a trailer or a truck.
    Load or unload the machine in a flat and safe place.
    Before loading or unloading, set the parking brake on the truck or trailer, stop the engine, and chock the wheels.
When transporting the machine on a truck or a trailer, set the parking brake, stop the engine, and fasten the machine to the truck with a rope or other suitable restraining device that has sufficient strength. When using a running board, select one with sufficient strength, length, and width and that will not cause the machine to slip.

25. Close the fuel valve before transporting the machine.

26. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

27. Do not take your eyes off the road ahead. Do not operate the machine with no hands.

28. Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of operation.

29. Do not operate the machine when there is the risk of lightning.

**Maintenance and Storage**

1. Disengage drives on level ground, disengage the cutting unit, set parking brake, stop engine and disconnect spark plug wire. Wait for all movement to stop before adjusting, cleaning or repairing.

2. To reduce the fire hazard, keep the engine, silencer/muffler, compartment fuel storage area, cutting unit and drives free of grass, leaves, or excessive grease. Clean up oil or fuel spillage.

3. Allow the engine to cool before storing in any enclosure.

4. Only cover the machine with a sheet after hot parts have sufficiently cooled down.

5. Never store the equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.

6. If the engine is provided with a shut-off valve, shut off valve while storing or transporting.

7. Do not store fuel near flames.

8. Never allow untrained personnel to service machine.

9. Allow the engine/muffler to cool before checking/maintenance.

10. Appropriately manage and correctly use the tools necessary for servicing or adjusting the machine.

11. Use jack stands to support components when required.

12. Carefully release pressure from components with stored energy.

13. Make sure that parts such as wires are not touching each other and that their covers have not come off.

14. Use care when checking the cylinders/reels and bed knives.

[1] Wear gloves and use caution when servicing them.

[2] Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

15. Keep hands and feet away from moving parts.

If possible, do not make adjustments with the engine running.

16. Keep all parts in good working condition and all hardware tightened.

Replace all worn or damaged decals.

17. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.

18. Check the grass catcher frequently for wear or deterioration.

19. If the fuel tank has to be drained, do this outdoors.
Recycle and Waste Disposal

About Recycle

Recycling battery etc. is recommended for environmental conservation and economical use of resources.
It may be required by local laws.

About Waste Disposal

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

<table>
<thead>
<tr>
<th>Model</th>
<th>LM101</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total length with grass catcher</td>
<td>61.02 in</td>
</tr>
<tr>
<td>Total width without traveling wheel</td>
<td>37.01 in</td>
</tr>
<tr>
<td>Total height Steering handle</td>
<td>45.67 in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>251.32 lb</td>
</tr>
<tr>
<td>Grass catcher(^1)</td>
<td>7.28 lb</td>
</tr>
<tr>
<td>Groomer(^1)</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Traveling wheel (for one machine)(^1)</td>
<td>15.21 lb</td>
</tr>
<tr>
<td>Minimum turning radius</td>
<td>-</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>HONDA GX120</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
</tr>
<tr>
<td>Total displacement</td>
<td>7.20 cu.in.</td>
</tr>
<tr>
<td>Maximum output</td>
<td>2.6 kW (3.5 PS)/3,600 rpm</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>Gasoline 0.53 U.S.gals</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS (\cdot) h (rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gals</td>
</tr>
<tr>
<td>Coolant volume</td>
<td>-</td>
</tr>
<tr>
<td>Hydraulic tank capacity</td>
<td>-</td>
</tr>
<tr>
<td>Operating width (Mowing width)</td>
<td>22.92 in</td>
</tr>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.118 - 0.551 in ([0.118 - 0.492 in]^2)</td>
</tr>
<tr>
<td>Blades</td>
<td>9 (\cdot) 11</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td></td>
</tr>
<tr>
<td>Traveling</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Mowing</td>
<td>Mechanical</td>
</tr>
<tr>
<td><strong>Speed (HST)</strong></td>
<td></td>
</tr>
<tr>
<td>Speed (HST)</td>
<td>-</td>
</tr>
<tr>
<td>Speed (Mechanical)</td>
<td>2.92 mph (@3,000 rpm)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>0.52 acres/hour ((2.92 \text{ mph x mowing width x } 0.8))</td>
</tr>
<tr>
<td>Maximum inclination for operation</td>
<td>-</td>
</tr>
<tr>
<td>Tire size</td>
<td>4.10/3.50-6</td>
</tr>
<tr>
<td>Tire pneumatic pressure</td>
<td>17.40 psi</td>
</tr>
<tr>
<td>Battery</td>
<td>-</td>
</tr>
<tr>
<td>Engine plug</td>
<td>NGK BPR4ES</td>
</tr>
</tbody>
</table>

The factory default maximum engine rpm is 3,100 rpm.

\(^1\): Total weight includes *1 parts.

\(^2\): The indicated lowest mowing height is for general application. It may be adjusted according to the state of green and the bed knife to be installed.

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

This machine was confirmed to have a continuous A-weighted sound pressure level of 84 dB by measuring identical machines in accordance with the procedure specified in ISO5395-1:2013.

Sound Power Level

This machine was confirmed to have a sound power level of 98 dB by measuring identical machines in accordance with the procedure specified in directive 2000/14/EC.

Vibration Level

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

Carbon Dioxide (CO₂) Emissions Measurement

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

<p>| | |</p>
<table>
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<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Handle</td>
</tr>
<tr>
<td>2</td>
<td>Throttle lever</td>
</tr>
<tr>
<td>3</td>
<td>Engine switch</td>
</tr>
<tr>
<td>4</td>
<td>Main clutch lever</td>
</tr>
<tr>
<td>5</td>
<td>Clutch lock lever</td>
</tr>
<tr>
<td>6</td>
<td>Brake lever</td>
</tr>
<tr>
<td>7</td>
<td>Engine</td>
</tr>
<tr>
<td>8</td>
<td>Engine clutch cover</td>
</tr>
<tr>
<td>9</td>
<td>Light</td>
</tr>
<tr>
<td>10</td>
<td>Reel cutter</td>
</tr>
<tr>
<td>11</td>
<td>Bed knife</td>
</tr>
<tr>
<td>12</td>
<td>Front roller</td>
</tr>
<tr>
<td>13</td>
<td>Rear roller</td>
</tr>
<tr>
<td>14</td>
<td>Grass catcher roller</td>
</tr>
<tr>
<td>15</td>
<td>Grass catcher</td>
</tr>
<tr>
<td>16</td>
<td>Groomer</td>
</tr>
<tr>
<td>17</td>
<td>Groomer clutch lever</td>
</tr>
<tr>
<td>18</td>
<td>FOC (High/Low Clip) selector lever</td>
</tr>
<tr>
<td>19</td>
<td>Unit cover</td>
</tr>
<tr>
<td>20</td>
<td>Drum clutch cover</td>
</tr>
<tr>
<td>21</td>
<td>Drum</td>
</tr>
<tr>
<td>22</td>
<td>Traveling tires</td>
</tr>
<tr>
<td>23</td>
<td>Stand</td>
</tr>
</tbody>
</table>
Regulation Decals

Positions of Regulation Decals

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Serial number plate</td>
</tr>
<tr>
<td>B</td>
<td>Specification Decal</td>
</tr>
<tr>
<td>C</td>
<td>Noise Emission Decal</td>
</tr>
<tr>
<td>D</td>
<td>Year of Manufacture Decal</td>
</tr>
<tr>
<td>E</td>
<td>Warning Spark Arrester Decal</td>
</tr>
<tr>
<td>F</td>
<td>California Proposition 65 Decal (walk behind type)</td>
</tr>
</tbody>
</table>

Description of Regulation Decals

Serial Number Plate

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

Specification Decal

(For Europe)
The Specification decal indicates the CE marking, model, and weight, etc.

Noise Emission Decal

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

Year of Manufacture Decal

(For Europe)
The year of manufacture decal indicates the year when this machine was manufactured.
Spark Arrester Warning Decal

(For the State of California, USA)
Spark arrester warning decal describes the warning messages as required by California Public Resources Code.

California Proposition 65 Decal (Walk Behind Type)

(For the State of California, USA)
California Proposition 65 Decal describes the warning messages as required by California Proposition 65.

**Important**
Safety decals and instruction decals are attached to this product. Make sure that they are preserved in their entirety. If they are damaged, become dirty, or peel off, replace them with new ones.

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

### Positions of Safety Decals and Instruction Decals

<table>
<thead>
<tr>
<th></th>
<th>DECAL, CAUTION HANDLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DECAL, CAUTION PTO</td>
</tr>
<tr>
<td>3</td>
<td>DECAL, CAUTION TO MUTILATION</td>
</tr>
<tr>
<td>4</td>
<td>DECAL, CAUTION TO NOISE</td>
</tr>
<tr>
<td>5</td>
<td>DECAL, WARNING ENGINE OIL</td>
</tr>
<tr>
<td>6</td>
<td>DECAL, GREASING EACH 10- HOURS</td>
</tr>
</tbody>
</table>
Description of Safety Decals and Instruction Decals

Handling caution decal

K4205002150
DECAL, CAUTION HANDLING

1. Use lead-free gasoline.

2. 

   Warning
   Read the Owner's Operating Manual.

3. 

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

4. 

   Warning
   May cut your hand or leg - When the blades are rotating, keep away from the machine.

PTO caution decal

K4205001760
DECAL, CAUTION PTO

   Warning
   May catch your arm - Keep away from PTO moving parts during the engine running.

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 Noise Decal**

K4205001330
DECAL, CAUTION TO NOISE

---

**Engine Oil Warning Decal**

K4205001300
DECAL, WARNING ENGINE OIL

**Important**
Check engine oil and gearbox levels before starting.

---

**Greasing Each 10-Hours Decal**

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

Installing the Handle

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

![Installing the Handle](image)

Connection of Engine Switch Cord

<table>
<thead>
<tr>
<th>1</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Crimp terminal</td>
</tr>
</tbody>
</table>

Important

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

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

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

Installing The Stand

1. With the inside projection side set to the right, temporarily secure the left side of the stand to the frame with the bolt, washer (inside), and nut (outside).
2. Put the spring on the projection of the frame and the projection at the right edge of the stand.
3. While pulling the right side of the stand backward, make alignment with the hole in the frame, and secure the stand with the bolt, washer (inside), and nut (outside).
4. Tighten the bolt, washer, and nut at the left side of the stand that were temporarily secured.

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.

Confirmation of The Operation

1. Check that the brake operates completely.

2. Check that the engine clutch operates completely.

3. If necessary, make adjustment.

Inspections

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

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

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

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.

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.

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.
Air Cleaner

Inspection of Air Cleaner

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

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

Cleaning of Air Cleaner

A contaminated air cleaner elements may cause malfunction of the engine. To maximize the life of the engine, clean the air cleaner properly.

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

Important

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

Important

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

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

5. Remove dirt and dust from the paper element with blowing air or patting.
6. Assemble the paper and urethane elements.
7. Attach the air cleaner elements with the screw.
8. Set the cover, and then secure it firmly with the wing screw.
Roller
Inspection of Rollers
  Bearing wear due to frequent use or bearing damage caused by water infiltration may prevent the roller from rotating smoothly. Inspect the roller and, if necessary, replace parts such as oil seals and bearings.
  1. Make sure that there is no abrasion nor adhesion of the roller.
  2. Make sure that there is no wear of the roller shaft.
  3. Make sure that there is no wear nor damage of the oil seal.
  4. Make sure that there is no wear nor rust of the bearing.
  5. Make sure that there is no play in the roller shaft.

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

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

<table>
<thead>
<tr>
<th>Tire size</th>
<th>Pneumatic pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire for traveling</td>
<td>4.10/3.50-6</td>
</tr>
</tbody>
</table>

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

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

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

Engine Oil
Inspection of Engine Oil

Important
Screw the oil level gauge firmly.

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

![Diagram of Engine Oil](bgmiun-019)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Oil level gauge (Oil filling port)</td>
</tr>
<tr>
<td>2</td>
<td>Drain plug</td>
</tr>
</tbody>
</table>

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

4. Screw the oil level gauge firmly.

**Supply of Engine Oil**

---

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

**Important**
Do not mix different types of engine oil.

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

**Important**
Screw the oil level gauge firmly.

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

---

**Fuel**

**Inspection of Fuel Quantity**

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

---

**Inspections**
Fuel Supply

**Caution**
Do not supply fuel above FULL level of the fuel gauge.
If you supply too much fuel, it might overflow from the fuel cap when you travel or work on a slope.

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

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

**Caution**
Pay attention not to touch hot parts.

Inspect the fuel quantity and put fuel (gasoline) if insufficient.
The fuel tank capacity is approximately 2.0 dm³ (2.0 L).

Oil Leakage

**Inspection of Oil Leakage**

After approximately 50 hours of operation, some joints may be loosened and oil and grease may leak.
Be sure to retighten the parts.
Check the bottom of the machine for oil and grease leakage.

Grass Catcher

**Inspection of Grass Catcher**

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

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

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

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.
### Handling Instructions

#### Tightening Torques

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>General bolt</th>
<th>Heat-treated bolt</th>
<th>Heat-treated bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strength classification 4.8</td>
<td>Strength classification 8.8</td>
<td>Strength classification 10.9</td>
</tr>
<tr>
<td></td>
<td>M 4 T 4.8</td>
<td>8 T 8.8</td>
<td>11 T 10.9</td>
</tr>
<tr>
<td>N-m</td>
<td>kgf-cm</td>
<td>lb-in</td>
<td>N-m</td>
</tr>
<tr>
<td>M5 3 - 5</td>
<td>30.59 - 50.99</td>
<td>26.55 - 44.26</td>
<td>7 - 10</td>
</tr>
<tr>
<td>M6 7 - 9</td>
<td>71.38 - 91.77</td>
<td>61.96 - 79.66</td>
<td>14 - 18</td>
</tr>
<tr>
<td>M8 14 - 19</td>
<td>142.76 - 193.74</td>
<td>123.91 - 168.17</td>
<td>28 - 38</td>
</tr>
<tr>
<td>M10 29 - 38</td>
<td>295.71 - 387.49</td>
<td>256.68 - 336.34</td>
<td>58 - 76</td>
</tr>
<tr>
<td>M12 52 - 67</td>
<td>530.24 - 683.20</td>
<td>460.25 - 593.02</td>
<td>104 - 134</td>
</tr>
<tr>
<td>M14 70 - 94</td>
<td>713.79 - 958.52</td>
<td>619.57 - 831.99</td>
<td>140 - 188</td>
</tr>
<tr>
<td>M16 88 - 112</td>
<td>897.34 - 1142.06</td>
<td>778.89 - 991.31</td>
<td>210 - 260</td>
</tr>
<tr>
<td>M18 116 - 144</td>
<td>1,182.85 - 1,468.37</td>
<td>1,026.72 - 1,274.54</td>
<td>280 - 340</td>
</tr>
<tr>
<td>M20 147 - 183</td>
<td>1,498.96 - 1,866.05</td>
<td>1,301.10 - 1,619.73</td>
<td>370 - 450</td>
</tr>
<tr>
<td>M22 295</td>
<td>3,008.12</td>
<td>2,611.05</td>
<td>530</td>
</tr>
<tr>
<td>M24 370</td>
<td>3,772.89</td>
<td>3,274.87</td>
<td>670</td>
</tr>
<tr>
<td>M27 550</td>
<td>5,608.35</td>
<td>4,868.05</td>
<td>1,000</td>
</tr>
<tr>
<td>M30 740</td>
<td>7,545.78</td>
<td>6,549.74</td>
<td>1,340</td>
</tr>
</tbody>
</table>

**Note:**
The same values are applied to "fine screw thread."
Principal Tightening Torques

Tightening Torque by Model

**LM101**

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).

<table>
<thead>
<tr>
<th>Location</th>
<th>Code</th>
<th>Part name</th>
<th>Tightening torque</th>
<th>Thread locking adhesive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reel shaft</td>
<td>K0170000082</td>
<td>NUT, SMALL P1.5 M20-8</td>
<td>36</td>
<td>367.09</td>
</tr>
<tr>
<td>Reel shaft</td>
<td>LM101--1205Z0</td>
<td>GEAR, REEL 20-TEETH A</td>
<td>36</td>
<td>367.09</td>
</tr>
<tr>
<td>Front roller</td>
<td>LM54G--0132Z0</td>
<td>BOLT, SUS MOUNTING MOWER (LH)</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Front roller</td>
<td>LM54G--0133Z0</td>
<td>BOLT, SUS MOUNTING MOWER (RH)</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Bed knife</td>
<td>K0071000222</td>
<td>SCREW, HT + FLAT HEAD M6-12</td>
<td>7 - 9</td>
<td>71.38 - 91.77</td>
</tr>
<tr>
<td>Wheel</td>
<td>K001A080201</td>
<td>BOLT, 13T W/HEX HOLE M8-20</td>
<td>14 - 19</td>
<td>142.76 - 193.74</td>
</tr>
<tr>
<td>Handle</td>
<td>K0010100252</td>
<td>BOLT, HT M10-25</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Groomer</td>
<td>K6809000270</td>
<td>SCREW</td>
<td>18</td>
<td>29 - 38</td>
</tr>
<tr>
<td></td>
<td>K0160000602</td>
<td>NUT, SPECIAL P1 M17 WM4</td>
<td>5 - 10</td>
<td>50.99 - 101.97</td>
</tr>
<tr>
<td></td>
<td>K6083000143</td>
<td>PIN, STEPPED FOR FIXING (RH) CASE</td>
<td>6</td>
<td>61.18</td>
</tr>
<tr>
<td></td>
<td>LM54GAS1230Z3</td>
<td>BOLT, CLAMPING CASE (LH)</td>
<td>6</td>
<td>61.18</td>
</tr>
</tbody>
</table>
Adjustment before Work

Adjustment of Handle

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

Adjustment of Blade Engagement

Caution

When checking the sharpness of the blades with newspaper, be sure to stop the engine and protect your hands with gloves etc. Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

1. Stop the engine.
2. Set the FOC (High/Low Clip) selector lever to the "Stop" position.

3. Adjust the engagement between the reel cutter (cutting cylinder) and the bed knife (bottom blade) so that newspaper (one piece) will be cut cleanly by the edge of both blades when the blades in their entirety come slightly into contact with each other via the cutter adjustment nuts.

4. Insert a strip of newspaper into the space between the reel cutter (cutting cylinder) and the bed knife (bottom blade) at an angle of 90 degrees. Then, rotate the reel cutter (cutting cylinder) counter-clockwise (when you face the cutting section from the left) to check the sharpness of the blades. Check the sharpness of the entire range (three or four points) of the reel cutter (cutting cylinder).

- If a gap is created between 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 sharpness is not improved by the adjustment: Perform back lapping to the reel cutter (cutting cylinder).
Adjustment of Cutting Height

Adjust the cutting height to fit your cutting work.

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

Cutting Height and Thickness of Bed Knife (Bottom Blade)

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

Minimum cutting height is recommended for each thickness of blade as follows.

<table>
<thead>
<tr>
<th>Type of blade</th>
<th>Thickness of blade (mm/inch)</th>
<th>Recommended minimum cutting height (mm/inch)</th>
<th>Code</th>
<th>Part name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard blade</td>
<td>1.5</td>
<td>3.0</td>
<td>K2511000270</td>
<td>1.5 Bed knife (bottom blade) 55G</td>
<td>Standard</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>3.5</td>
<td>K2511000280</td>
<td>2 Bed knife (bottom blade) 55G</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>4.0</td>
<td>K2511000050</td>
<td>2.5 Bed knife (bottom blade) 55G</td>
<td></td>
</tr>
<tr>
<td>Tipped blade</td>
<td>3.0</td>
<td>4.5</td>
<td>K2510000060</td>
<td>3 Bed knife (bottom blade) 62.5-559</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.0</td>
<td>7.0</td>
<td>K2510000160</td>
<td>5 Bed knife (bottom blade) 62.5-559</td>
<td></td>
</tr>
</tbody>
</table>
Adjustment of Rear Roller

The rear roller can be adjusted to 3 levels. Adjust the rear roller to a cutting stance that suits the required work.

1. Remove the left and right nut A, washer A, spring washer A, and bolt A.

2. Remove the left and right washer B and nut B, and remove the rear roller assy from the frame.

3. Decide on the orientation of bolt B to suit the desired cutting stance, and install the rear roller assy.

   Cutting stance
   • Aggressive cutting stance
     Long offset distance and large bed knife angle.

   • Standard cutting stance

<table>
<thead>
<tr>
<th>Cutters</th>
<th>Bed knife</th>
<th>Rear roller assy</th>
<th>Bolt B</th>
<th>Cutting height</th>
<th>Offset distance</th>
<th>Bed knife angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 cm</td>
<td>1 cm</td>
<td>5 cm</td>
<td>2 cm</td>
<td>3 cm</td>
<td>4 cm</td>
<td>5 cm</td>
</tr>
</tbody>
</table>

Adjustment before Work
• Less aggressive cutting stance  
  Short offset distance and small bed knife angle.

2. Loosen the left and right nuts that secure the roller bracket.

Adjustment of Rear Roller_005

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reel cutter</td>
<td>2</td>
<td>Bed knife</td>
<td>3</td>
</tr>
<tr>
<td>A</td>
<td>Cutting height</td>
<td>B</td>
<td>Offset distance</td>
<td>C</td>
</tr>
</tbody>
</table>

Adjustment of Front Roller

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

2. Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mowing part.

Adjustment of Front Roller_002

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front roller</td>
</tr>
<tr>
<td>2</td>
<td>Roller bracket</td>
</tr>
<tr>
<td>3</td>
<td>Roller adjustment bracket</td>
</tr>
<tr>
<td>4</td>
<td>Nut</td>
</tr>
</tbody>
</table>

Adjustment of Front Roller_001

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cutting height gauge</td>
<td>2</td>
</tr>
</tbody>
</table>

Adjustment of Front Roller_003

<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front roller</td>
<td>2</td>
<td>Roller bracket</td>
<td>3</td>
<td>Front groomer</td>
<td>4</td>
<td>Reel cutter</td>
<td>5</td>
</tr>
</tbody>
</table>
4. Raise or lower the front roller with the roller adjustment bracket to set the position of the front roller so that there is no clearance with the bottom of the head of the cutting height setting screw on the cutting height gauge at the tip position of the bed knife.

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

6. Tighten the nuts securing the left and right roller brackets, and fix them securely.

7. Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mowing part again, and check that it is at the desired cutting height.

**Adjustment of Groomer**

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

**Important**
When using the front groomer, adjust it to suit the conditions on the green.

**Important**
Set the groomer to a height of 0.0 mm (0.0 in) or more above the ground. Setting the front groomer deeper than the ground surface may cause damage to the groomer shaft.

**Important**
Setting the front groomer too deep applies too much load to the engine and transmission parts, and may cause malfunctions or damage.

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

2. Loosen the nut B securing the left side groomer adjustment screw.

3. Loosen the left side high nut.
Loosen the bolt securing the right side groomer adjustment screw.
Loosen the right side high nut.

Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mowing part.

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

Adjust nut C by raising or lowering it so the left and right are parallel.
Firmly tighten the nut B securing the left side groomer adjustment screw.
Firmly tighten the bolt securing the right side groomer adjustment screw.
Tighten the left and right high nuts.
Bring the cutting height gauge into contact with the front roller and rear roller at the left and right ends of the mowing part again, and check that it is at the desired groomer height.
Adjustment of Groomer_006

<table>
<thead>
<tr>
<th>1</th>
<th>Front groomer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>High nut</td>
</tr>
<tr>
<td>3</td>
<td>Nut A</td>
</tr>
<tr>
<td>4</td>
<td>Bolt</td>
</tr>
<tr>
<td>5</td>
<td>Groomer adjustment screw</td>
</tr>
</tbody>
</table>

Note:
When not using the front groomer, there is no need to change the set height of the groomer. The front groomer can be raised to a height where it does not make contact with the grass, by loosening the left side nut B and right side bolt securing the groomer adjustment screw, lifting up the front groomer and tightening the left side nut B and right side bolt.

To use the groomer again, the previous height set for the groomer can be restored by loosening the left side nut B and right side bolt, lowering the groomer and tightening the left side nut B and right side bolt.

Procedure to Start/Stop Engine

Start/Stop of Engine

Procedure to Start Engine

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

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

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

Procedure to Start Engine_001

<table>
<thead>
<tr>
<th>1</th>
<th>Engine switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>ON</td>
</tr>
<tr>
<td>B</td>
<td>OFF</td>
</tr>
</tbody>
</table>

2. Make sure that the brake is locked.

Procedure to Start Engine_002

<table>
<thead>
<tr>
<th>1</th>
<th>Brake lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Lock lever</td>
</tr>
<tr>
<td>A</td>
<td>Lock</td>
</tr>
<tr>
<td>B</td>
<td>Unlock</td>
</tr>
</tbody>
</table>
3. Don't grip the main clutch lever.

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

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

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

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

---

**Important**

Return the starter grip slowly to its original position after the engine starts. Do not let go of the pulled starter grip since it may cause damage to the machine.
8. Set the choke lever to the "Open" position.

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

---

**Procedure to Start Engine_008**

<table>
<thead>
<tr>
<th>1</th>
<th>Choke lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Close</td>
</tr>
<tr>
<td>B</td>
<td>Open</td>
</tr>
</tbody>
</table>

**Procedure to Stop Engine_001**

<table>
<thead>
<tr>
<th>1</th>
<th>Main clutch lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Clutch lock lever</td>
</tr>
<tr>
<td>A</td>
<td>ON</td>
</tr>
<tr>
<td>B</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**Procedure to Stop Engine_002**

**Procedure to Stop Engine_003**

<table>
<thead>
<tr>
<th>1</th>
<th>Fuel cock</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Close</td>
</tr>
<tr>
<td>B</td>
<td>Open</td>
</tr>
</tbody>
</table>
Operation Method

Cautions before Leaving The Machine

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

⚠️ Caution
Check that the engine has stopped.

⚠️ Caution
Make sure that the brake lever is locked.

Positions of Operation Decals

Description of Operation Decals

Engine Switch Mark

ENGINE SWITCH MARK
It illustrates the positions of the engine switch.

![Engine Switch Mark](image)

Light Switch Mark

Note:
Depending on the specifications, this function may not be available.
K4203001610
DECAL, LIGHT SWITCH
It illustrates ON/OFF of the light.

![Light Switch Mark](image)

| 1 | ON |
| 2 | OFF |

Positions of Operation Decals

1. Engine switch mark
2. Decal, light switch
3. Sticker, ON/OFF A (Unit clutch)
4. Sticker, ON/OFF A (Drum clutch)
5. Sticker, reel rotation
6. Decal, groomer indication
7. Decal, alignment 10300 (Set of 2pcs)
ONOFF mark A (unit clutch)

K4203001140
STICKER, ON/OFF A (unit clutch)
It shows ON/OFF of the unit clutch.

ON
↓↓
OFF

ONOFF mark A (unit clutch)_001

ONOFF mark A (drum clutch)

K4203001140
STICKER, ON/OFF A (drum clutch)
It shows ON/OFF of the drum clutch.

ON
↓↓
OFF

ONOFF mark A (drum clutch)_001

Reel rotation indication mark

K4203001690
STICKER, REEL ROTATION
It illustrates High / Low speed of the reel cutter rotation speed.

Reel rotation indication mark_001

1  High speed (High Clip)
2  Stop
3  Low speed (Low Clip)

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
**Red Alignment Mark 10300**

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

K4209001230
DECAL, ALIGNMENT 10300 (SET OF 2PCS)
Affix the decals in indicative positions on the grass catcher for operational support.

---

**Light Switch**

Note:
Depending on the specifications, this function may not be available.
The light switch is located in the handle panel. Flip up the switch to turn on the light, and down to turn off.

---

**Engine Switch**

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

---

**Throttle Lever**

Note:
Depending on the specifications, this function may not be available.
The throttle lever is located in the handle and enables you to adjust the engine rpm.
Grip the throttle lever tightly to move it toward "High speed" position for increasing the engine rpm, and loosen grip to move it toward "Low speed" position for decreasing the rpm.

Note:
The factory default engine rpm (maximum) is set to 3,100 rpm.
Operate at about 3,000 rpm.
**Throttle Lever**

Note: Depending on the specifications, this function may not be available.
The throttle lever is located in the handle and enables you to adjust the engine rpm.
Move the throttle lever toward the "High speed" position to increase the engine rpm, and toward the "Low speed" position to reduce the rpm.

Note: The factory default engine rpm (maximum) is set to 3,100 rpm.
Operate at about 3,000 rpm.

**Brake Lever**

- **Caution**
  
  Avoid quick operation. Carefully and slowly operate the machine.

  The brake lever is located in the handle. Grip the brake lever to activate braking and the travel of the machine is stopped. Grip the lock lever while gripping the brake lever to lock the brake lever with braking applied. Grip the locked brake lever to release locking. Note: Lock the brake lever to apply Parking Brake.

**Clutch Lock Lever**

The clutch lock lever is located in the handle.

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

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

**Caution**
Avoid quick operation. Carefully and slowly operate the machine.

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

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

![Main Clutch Lever_001](image1)

Drum Clutch Lever

**Caution**
Operate and set the lever to the proper position in accordance with the purpose when the main clutch lever set to the OFF position.

The drum clutch lever is located at the rear of the right frame side. Set the lever to ON to activate the drum and the traveling wheels. Set the lever to OFF for neutral.

![Drum Clutch Lever_001](image2)

Unit Clutch Lever

**Caution**
Operate and set the lever to the proper position in accordance with the purpose when the main clutch lever set to the OFF position.

The unit clutch lever is located above the left frame. Set the lever to the ON position and the power is transmitted from the transmission case to the unit. Set the lever to the OFF position and the power from the transmission case to the unit is cut off.

![Unit Clutch Lever_001](image3)
Note:
Set the lever to the OFF position when traveling.

FOC (High/Low Clip) Selector Lever

Caution
Operate and set the lever to the proper position in accordance with the purpose when the main clutch lever set to the OFF position.

The FOC (High/Low Clip) selector lever is in the right side of the unit.
There are three changeover positions. When the lever is shifted to "High clip", the reel cutter (cutting cylinder) rotates faster, and the clip pitch (cutting interval) becomes shorter. This is suitable for the work in good turf condition.
When the lever is shifted to "Low clip", the reel cutter (cutting cylinder) rotates slower compared to "High clip" and the clip pitch becomes longer. This is suitable for the work when the turf condition is not so good.
When the lever is shifted to "Stop", the drive transmission for the reel rotation gear is disengaged.

Engine Clutch Cover

The engine clutch cover is on the left side of the engine, covering the engine clutch. The engine clutch cover can be opened and closed with the fastening bolt taken off and put on.
Groomer Clutch Lever

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

⚠️ Caution
Operate and set the lever to the proper position in accordance with the purpose when the main clutch lever set to the OFF position.

The groomer clutch lever is in the left side of the unit.
There are three changeover positions. When the lever is in the "Normal rotation" position, the groomer rotates in the same direction as the blade reel cylinder. When the lever is in the "Reverse rotation" position, the groomer rotates in the opposite direction of the blade reel cylinder. When the lever is in the "Rotation stop" position, the groomer does not rotate.

Instruments

Hour Meter

The hour meter indicates the accumulated operation time of the engine. The accumulated time can not be manually reset. When the accumulated time exceeds 99999 hours, the display automatically shows zero for restart.

Travel of Machine

Traveling Procedure

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

⚠️ Caution
Do not start to move or stop the machine abruptly.

1. Install traveling tires.
2. Flip up the stand.
3. Set the drum clutch lever to "ON" position.
4. Start the engine.
5. Release the brake.
6. Release the safety lock and grip the main clutch lever slowly.
7. The machine can start traveling.
**Cutting Work**

**Warning**
Do not operate on a steep slope.

**Caution**
Do not start to move or stop the machine abruptly.

**Caution**
Be sure to operate at an appropriate speed for the mowing site.
For mowing on an undulated surface, mow with lowered cutting speed.

**Important**
Be sure to attach the grass catcher. Discharge the clippings at the right time during operation.

1. Remove the traveling tires.
2. Flip up the stand.
3. Install the grass catcher.
4. Move the FOC (High/Low Clip) selector lever to the desired position.
5. Move the drum clutch lever to the "ON" position.
6. Move the groomer clutch lever to the desired position.
7. Move the Unit clutch lever to the "ON" position.
8. Start the engine.
9. Release the brake.
10. Release the safety lock and grip the main clutch lever slowly to start mowing.

**Note:**
The factory default maximum engine rotation speed is set to 3,100 rpm.
Operate at about 3,000 rpm.

**Removing/Installing Traveling Tires**

**Important**
Remove the traveling tires before cutting work.

Traveling tires are used to travel.

Removing Traveling Tires:
1. Stop the engine.
2. Flip down the stand.

3. While holding the lever of the wheel mount plate to the release position, pull the traveling tire toward to remove it.
4. Repeat the same process for removing the opposite traveling tire.

**Installing Traveling Tires:**

**Important**

- The drum shaft and the traveling tires have mating parts each other.
- Make sure of their shapes to install the traveling tires.

**Important**

- Make sure that the wheel mount plate is grooved on the drum shaft. Otherwise the tires may come off.

**Removing/Installing Grass Catcher**

**Caution**

- Stop the engine before removing/installing the grass catcher.

**Removing Grass Catcher:**

Lift up the grass catcher and remove it from the grass catcher fitting bars.

**Installing Grass Catcher:**

Insert the grass catcher fitting bars into the slots of the grass catcher.
Transporting

Transporting Procedure

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

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

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

Be extremely careful when loading the machine into a truck or a trailer. Before loading or unloading, stop the truck or trailer on a level surface in a safe location, apply the parking brake, stop the engine, and then chock the wheels. Before loading into a truck or a trailer for transportation, apply the parking brake of the machine, stop its engine, and then secure the machine with rope or any other sufficiently strong restraining device. When using a loading ramp, select one of sufficient length, width and strength, and that will not allow the machine to slip off.

Storage

**Before Long-Term Storage**

- Remove any dirt, grass, debris, or oil stains completely.
- Supply oil and apply grease to appropriate parts.
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Maintenance Schedule .......................... Page 5-4

Adjusted Values ....................................... Page 5-6

Greasing ................................................. Page 5-7

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About Lubrication .................................. Page 5-11
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Adjusting CAM ....................................... Page 5-12
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Blade Does Not Cut .................................. Page 5-30
Uneven Blade Engagement ...................... Page 5-31
Maintenance Precautions

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

**Important**
Use tools appropriate for each maintenance operation.

**Important**
For the safe and best performance of your machine, use Baroness genuine parts for replacement and accessories. Please note that our product warranty may be void if you use non-genuine parts for replacement or accessories.

Position of Mower during Maintenance

**Important**
If the mower handle is left leaned on the ground for a long time during maintenance engine oil may enter the engine combustion chamber and cause the engine to run improperly. Be careful not to keep this position long and ensure sufficient time for any oil to drain back by returning to upright position for ten minutes before starting.

**Important**
An attitude of the machine tilting toward the handle side at a large angle may cause the engine malfunction.

Note:
The attitude of the machine tilting toward the handle side at a large angle is a state where the engine tilts more than 30 degrees from the upright position.
- For maintenance of the machine fitted with the traveling wheels:
  Use the maintenance stand to prevent from the engine malfunction.

**Caution**
Pay attention to the machine standing up with the maintenance stand lifted up when large power is added to the mower unit of the machine tilting toward the handle side.

1. Park the machine on a level place.
2. Tilt it slowly toward the handle side and pass the main clutch lever through the pipe of the maintenance stand.
3. Set the handle so that the maintenance stand can stand upright.

Position of Mower during Maintenance_001

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>Maintenance stand</td>
</tr>
</tbody>
</table>
For maintenance of the machine without the traveling wheels:

**Caution**

The engine malfunction does not occur even when the machine tilting toward the handle side with the stand touching the ground. Pay attention to the machine standing up depending on the unbalanced state owing to the adjusted position of the handle height.

1. Park the machine on a level place.
2. Tilt it slowly toward the handle side and set it so that the stand can touch the ground.
## Maintenance Schedule

**LM101**

Follow the maintenance schedule below.

- ○ ● △ Inspect, adjust, supply, clean
- ● ○ △ Replace (first time)
- △ ● ○ Replace

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Before Work</th>
<th>After Work</th>
<th>Every 10 hrs.</th>
<th>Every 20 hrs.</th>
<th>Every 25 hrs.</th>
<th>Every 50 hrs.</th>
<th>Every 100 hrs.</th>
<th>Every 300 hrs.</th>
<th>Every 500 hrs.</th>
<th>Every year</th>
<th>Every 2 years</th>
<th>When Required</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2 Check tightening bolts and nuts</td>
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<td>*2 Check fuel level</td>
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<td>Check fuel and oil leaks</td>
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<td>*2 Check engine oil level</td>
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<td>*2 Check air cleaner</td>
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<tr>
<td>Clean engine and circumference of the muffler cover</td>
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</table>
| *2 Change engine oil | ● | △ | | | | | | | | | | | 20 hours first change  
| *2 Check spark plug | ○ | | | | | | | | | | | |  
| *2 Clean spark arrester | | | | | | | | | | | | |  
| *2 Clean sediment cup | | | | | | | | | | | | |  
| *1 Clean fuel tank & filter | | | | | | | | | | | | |  
| *1 Check idling speed | ○ | ○ | | | | | | | | | | | Check every 300 hours or every year whichever comes earlier  
| *1 Check valve clearance | ○ | ○ | | | | | | | | | | | Check every 300 hours or every year whichever comes earlier  
| *2 Replace air cleaner | | | | | | | | | | | | | Paper filter element: Replace every 300 hours or every year whichever comes earlier  
| Foam filter element: Replace as necessary  
| *2 Replace spark plug | △ | △ | | | | | | | | | | | Replace every 300 hours or every year whichever comes earlier  
| *1 Remove carbon in combustion chamber | | | | | | | | | | | | |  
| *1 Check fuel hoses and clamp bands | | | | | | | | | | | | | ○ △  
| Driving section | | | | | | | | | | | | |  
| Check tire pressures and condition | | | | | | | | | | | | |  
| Check damaged parts | | | | | | | | | | | | |  
| Check tightening bolts and nuts | | | | | | | | | | | | |  

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Page 5-4
<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Before Work</th>
<th>After Work</th>
<th>Every 10 hrs.</th>
<th>Every 20 hrs.</th>
<th>Every 25 hrs.</th>
<th>Every 50 hrs.</th>
<th>Every 100 hrs.</th>
<th>Every 300 hrs.</th>
<th>Every 500 hrs.</th>
<th>Every year</th>
<th>Every 2 years</th>
<th>When Required</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Driving section</td>
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<td>Maintenance schedules differ according to greasing points</td>
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<tr>
<td>Check main clutch lever actuation</td>
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<td>Check brake function</td>
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<td>Check work lamp illumination</td>
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<td>Adjust handle position</td>
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<td>Check safety lock of main clutch</td>
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<td>Clean driving section</td>
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<td>Grease and Lubricate all moving parts</td>
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<td>Adjust engine clutch spring</td>
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<td>Check brake wire</td>
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<td>Check blade condition (Reel cutter and Bedknife)</td>
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<td>Check roller condition</td>
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<td>Check groomer condition</td>
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<td>Engage blades</td>
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<td>Check mowing height</td>
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<td>Adjust groomer</td>
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<td>Check damaged parts</td>
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<td>Check tightening bolts and nuts</td>
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<td>Clean cutting section</td>
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<tr>
<td>Clean and Grease Bedknife Eccentric Bushes</td>
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<td></td>
<td>Maintenance schedules differ according to greasing points</td>
</tr>
<tr>
<td>Replace bearings inside gearcase</td>
<td>○</td>
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<td>Replace front/rear roller bearings</td>
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<td>Replace grass catcher roller bearings</td>
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<tr>
<td>Replace oil seals inside gearcase</td>
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</tr>
<tr>
<td>Maintenance Item</td>
<td>Before Work</td>
<td>After Work</td>
<td>Every 10 hrs.</td>
<td>Every 20 hrs.</td>
<td>Every 25 hrs.</td>
<td>Every 50 hrs.</td>
<td>Every 100 hrs.</td>
<td>Every 300 hrs.</td>
<td>Every 500 hrs.</td>
<td>Every year</td>
<td>Every 2 years</td>
<td>When Required</td>
<td>Remarks</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
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<tr>
<td>Cutting section</td>
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<tr>
<td>Replace grease inside gearcase</td>
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<tr>
<td>Adjust cutter adjustment spring</td>
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<td>Backlap blades</td>
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<tr>
<td>Regrind blades (Reel cutter)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>○ Grind/Replace blades as and when required</td>
</tr>
</tbody>
</table>

*1: Consult your local Baroness Dealer for this service.
*2: Refer to the Engine's Owner's Manual.

The values for consumables are not guaranteed.

**Adjusted Values**

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter adjustment spring</td>
<td>43.0 mm (1.69 in)</td>
<td>Total length of spring</td>
</tr>
<tr>
<td>Reel cutter shaft bearing preload spring</td>
<td>11.5 mm (0.453 in)</td>
<td>Total length of spring</td>
</tr>
<tr>
<td>Reel cutter rotation torque</td>
<td>0.8 - 1.0 N (\cdot) m (8 - 10 kgf (\cdot) cm)</td>
<td></td>
</tr>
<tr>
<td>Engine clutch</td>
<td>0.5 - 1.0 mm (0.020 - 0.039 in)</td>
<td>Gap between engine clutch and clutch facing</td>
</tr>
<tr>
<td>Operation distance of clutch plate</td>
<td>1.0 - 2.0 mm (0.039 - 0.079 in)</td>
<td></td>
</tr>
<tr>
<td>Engine clutch spring</td>
<td>61.0 mm (2.40 in)</td>
<td>Total length of spring</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Location</th>
<th>No. of greasing points</th>
<th>Greasing period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Upper side of left frame cover</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>2 Mower #1 shaft</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>3 Left frame #2 shaft</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>4 Left frame #4 shaft</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>5 Differential gear</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>6 Right frame #2 shaft</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>7 Right gear case</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>8 Transmission gear case</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>9 Transmission shaft</td>
<td>2</td>
<td>A,B</td>
</tr>
<tr>
<td>10 Arm mounting hitch fulcrum</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>11 Reel housing</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>12 Front roller</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>13 Groomer gear case</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>14 Groomer shaft</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>15 Handle</td>
<td>1</td>
<td>B</td>
</tr>
</tbody>
</table>

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

1. Upper side of left frame cover

2. Mower #1 shaft
3. Left frame #2 shaft

7. Right gear case

4. Left frame #4 shaft

8. Transmission gear case

5. Differential gear

There are one location each on the right and left.

6. Right frame #2 shaft

9. Transmission shaft

Left side

Greasing Points_004

Greasing Points_008

Greasing Points_005

Greasing Points_009

Greasing Points_006

Greasing Points_007

Greasing Points_0010
10. Arm mounting hitch fulcrum

11. Reel housing
   There are one location each on the right and left.

12. Front roller
   There are one location each on the right and left.
13. Groomer gear case
Note:
Depending on the specifications, this function may not be available.

14. Groomer shaft
Note:
Depending on the specifications, this function may not be available.
There are one location each on the right and left.

15. Handle
- Main clutch lever
Lubrication

About Lubrication

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

Apply the lubricant.

Lubricating Points

There are oil filling ports at the following locations. Apply lubricant every 50 hours of operation.

<table>
<thead>
<tr>
<th>Location</th>
<th>No. of lubricating points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Clutch lock lever fulcrum</td>
<td>2</td>
</tr>
<tr>
<td>2 Throttle lever fulcrum</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Clutch lock lever fulcrum

2. Throttle lever fulcrum

Note: Depending on the specifications, this function may not be available.
Adjustment of Cutter Adjustment Spring

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

**Caution**
When handling the reel cutter (cutting cylinder) and the bed knife (bottom blade), wear gloves to protect your hands. Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

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

1. Adjust the blade engagement.
2. Loosen the spring adjusting screw and the nut, and then adjust the length of the coil spring to 43.0 mm (1.69 in).

### Adjusting CAM

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

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

Loosen the locknut when adjusting the cam bush.

When the gap appears on the left side:

1. 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.
Back Lapping

Back lapping is work similar to sharpening a cooking knife. If the edges of the reel cutter (cutting cylinder) and the bed knife (bottom blade) become blunt and make cutting difficult, both the reel cutter (cutting cylinder) and the bed knife (bottom blade) should be simultaneously sharpened by reversing the reel cutter (cutting cylinder) with an abrasive paste applied. However, back lapping is a temporary measure and would not restore the sharpness completely. If the edges of the reel cutter (cutting cylinder) and the bed knife (bottom blade) become blunt and make cutting difficult, follow the steps below to perform back lapping.

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

Note:
The mixing ratio for the abrasive, in volume, is one part back lapping powder (#200 - #400) to three or four parts oil.
2. Have a lapping machine or the lapping handle ready.

**Caution**
When handling the reel cutter (cutting cylinder) and the bed knife (bottom blade), wear gloves to protect your hands. Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

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

3. Stop the engine.
4. Shift the the FOC (High/Low Clip) selector lever to the "Stop" position.

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

6. Check the sharpness of the entire range (three or four points) of the reel cutter (cutting cylinder).

7. Using a piece of chalk, mark locations on the blade that are sharp.

8. Check the location of the lapping bolt.
9. Connect the lapping machine or the lapping handle to the lapping bolt on the machine.

10. Rotate the reel cutter (cutting cylinder) clockwise (when you face the mower frame from the left).
   • Turn on the lapping machine.
   Or rotate the lapping handle.

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

11. Apply the abrasive evenly with the brush on the top side of reel cutter (cutting cylinder) where the newspaper was cut well or of chalk-marked locations.
   (Never apply to blunt areas.)
12. Rotate the reel cutter for a while and stop its rotation when the sound of contact is lost.
   • Turn off the lapping machine.
   Or stop rotating the lapping handle.
13. Disconnect the lapping machine or the lapping handle (accessory tool).

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

   Important
   Pay attention not to pour water over the engine and electric components when cleaning.
17. Wash out the abrasive with a washer etc.
18. While checking the blade for sharpness, adjust blade engagement.
Sharpening 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 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.

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.

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

<table>
<thead>
<tr>
<th>New</th>
<th>Usage limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A (Outer diameter of reel cutter (cutting cylinder))</td>
<td>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)</td>
</tr>
<tr>
<td>101 mm (3.98 in)</td>
<td>37.8 mm (1.49 in)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New</th>
<th>Usage limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A (Outer diameter of reel cutter (cutting cylinder))</td>
<td>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)</td>
</tr>
<tr>
<td>93 mm (3.66 in)</td>
<td>33.8 mm (1.33 in)</td>
</tr>
</tbody>
</table>

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) (factory-recommended)
---|---
101 mm (3.98 in) | 2.5 mm (0.10 in)

<table>
<thead>
<tr>
<th>New</th>
<th>Usage limit</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Dimension A (Outer diameter of reel cutter (cutting cylinder))</th>
<th>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder)</th>
<th>Dimension A (Outer diameter of reel cutter (cutting cylinder) shaft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 mm (3.98 in)</td>
<td>37.8 mm (1.49 in)</td>
<td>93 mm (3.66 in)</td>
</tr>
<tr>
<td>33.8 mm (1.33 in)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Replacement of Reel Cutter (Cutting Cylinder)

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

Replacement of Reel Cutter (Cutting Cylinder)

| 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
Caution

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

Caution

When handling the reel cutter (cutting cylinder) and the bed knife (bottom blade), wear gloves to protect your hands. Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

Important

See the list in Tightening torques. Note that the Baroness product warranty may not apply to defects caused by incorrect or overtorque tightening etc.

Follow the instruction below to replace the reel cutter bearing and oil seal on both sides.

Important

Use Bearing 30204JRP6.

1. Fill up the bearings and oil seals with grease (Excelite EP No.2).
2. Attach the reel cutter (cutting cylinder) to the frame.
3. Tighten the nut completely and temporarily, and then loosen it until the spring length reaches 11.5 mm (0.453 in) and lock it. Note: A certain preload will be applied by the spring pressure.
4. Measure the rotational torque of the blade reel cylinder with a torque wrench. The specified value should be 0.8 to 1.0 Nm (8 to 10 kgf cm).
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. However, these criteria are only a reference and do not guarantee performance like that of a new bed knife (bottom blade).

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

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

Removing/Installing The Bed Knife Base

Removal of Bed Knife Base

**Caution**

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

**Caution**

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

1. Lower the roller bracket so that it does not contact the reel cover, and then remove the bolts.
2. Remove the reel cover.
3. Turn over the cutting section.

4. Remove the bolts, and then remove the rear roller Assy.

5. Loosen the left and right lock nuts, and then remove the cutter pins.

6. Stand up the cutting section so that the roller bracket is at the top, and then remove the left and right cutter adjustment nuts.

7. Place down the cutting section, and then remove the bed knife base COMP.
Installation of Bed Knife Base

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

**Caution**
When handling the reel cutter (cutting cylinder) or bed knife (bottom blade), wear gloves to protect your hands. Pay attention not to let the reel cutter (cutting cylinder) catch your gloves. Otherwise, you may injure your hand or fingers.

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

**Important**
Make sure that there is no binding at the cam bushes in the mower frame.

**Important**
Install the bed knife base COMP parallel to the mower frame. During installation, be careful not to twist both arms.

1. Remove the collar and compression spring from each (left and right) cutter adjustment bolt, and then temporarily install the bed knife base COMP onto the mower frame.

2. Temporarily install the left and right cutter pins. Note: At this time, tighten the lock nuts to the heads of the cutter pins, but do not allow the lock nuts to contact the cam bushes.

3. Align the punch mark on each (left and right) cam bush with the traveling direction.
4. Make sure that the bed knife (bottom blade) contacts the reel cutter (cutting cylinder).

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

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

7. Use a marker, etc., to place a mark on the mower frame at the position of the punch mark on the cam bush, and then remove the cutter pin.

8. Remove the bed knife base COMP, and then install the compression springs and collars onto the left and right cutter adjustment bolts.
9. Install the bed knife base COMP.
10. Tighten the left and right cutter adjustment nuts evenly on both sides so that the cutter pin mounting holes of the bed knife base and cam bush are aligned.

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

11. Install the lock nut to each (left and right) cutter pin.
12. Tighten the cutter pin into the cutter pin mounting holes of the bed knife base and cam bush, and then tighten the lock nut to fix it.

13. Install the rear roller Assy.

15. Install the reel cover and then tighten the bolts to fix it.
Removing/Installing The Bed Knife

Removing The Bed Knife

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

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

Installing The Bed Knife

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

Important
Replace the old screws with new ones.

1. Tighten the screws uniformly with a hammer driver.

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

**Caution**
If the brake wire is severed, this machine will be unable to stop. If there are cracks, damage, or other defects, replace it immediately.

**Caution**
Adjust the brake wire if the brakes become less effective, even when applying the brakes.

**Caution**
Brakes with different effectiveness on the left and right sides may result in an unexpected accident.

1. Adjust the brake with the brake wire lock nut.

2. Follow the same steps to adjust the brake on the opposite side.
3. Move the brake lever from the lock to unlock position.

4. Loosen all the brake wire lock nuts on the underside of the handle cover.
5. Raise or lower the adjustment bolt with the lock nut to adjust the wire so there is a little play in the left and right brake wires.
6. Raise or lower the adjustment bolt with the lock nut to adjust the wire so the left and right brake wires are tight when the brake lever is locked.
7. Raise or lower the adjustment bolt with the lock nut to adjust the wire if the brakes are not effective when the brake lever is locked, or if the brake shoes drag when the lock is released.
8. Make sure that the left and right brakes are applied firmly and equally.
9. Repeat the above procedures to adjust the brake wire.
10. Tighten all the lock nuts after making the necessary adjustments.

Note:
If there is a rubbing noise when rotating the drum or the drum feels difficult to turn, the brake shoes may be making contact with the brake drum.
In such a case, adjust it again.

Adjustment of Engine Clutch Section

For centering adjustment of the engine clutch:
Centering adjustment of the engine clutch is required after replacement of the engine or clutch parts.
1. Adjust the engine clutch.
2. Adjust the clutch wire.
3. Adjust the clutch spring.

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

Change of Air Cleaner

A contaminated air cleaner element may cause malfunction of the engine.
To maximize the life of the engine, replace the air cleaner element at the appropriate times.
1. The timing for replacing the air cleaner element is described below.
   [1] Replace the air cleaner element in accordance with the Maintenance Schedule.
   [2] If it is significantly contaminated, replace it, even if the hours of operation do not exceed the specified time.
2. Replace the air cleaner element by following the same steps as for cleaning the air cleaner.
   “Cleaning of Air Cleaner” (Page 4-4)

Replacement of Engine Oil

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

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

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

Important
Screw the oil level gauge firmly.

Replace the engine oil more frequently if the engine oil is contaminated, and especially if you use the machine in dusty areas or operate the engine at high loads or in high temperatures.
1. Move the machine onto a level surface, stop the engine.
2. Remove the drain plug while the engine oil is warm, and then drain the engine oil into a bowl.
3. Replace the drain plug in the engine.
4. Remove the oil level gauge.
5. Through the oil filling port, supply new engine oil.
   The engine oil quantity is approximately 0.56 dm³ (0.56 L).
6. Position the machine so that the engine will be level, then check the engine oil level without screwing the oil level gauge into the oil filling port.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Oil level gauge (Oil filling port)</td>
</tr>
<tr>
<td>2</td>
<td>Drain plug</td>
</tr>
</tbody>
</table>

7. After checking the oil level with the oil level gauge, add more engine oil if it is insufficient.
8. Securely tighten the oil level gauge.
9. Check underneath the machine for oil leakage.
**Troubleshooting Procedures of Aftercut Appearance**

### Scalping

- **Is the roller bracket secured?**
  - **YES**
    - Tightening to secure
    - Replacement of securing screws
  - **NO**
    - Replacement of front roller bearing
    - Replacement of front roller shaft

- **Have adjustments been made to obtain desired cutting height?**
  - **YES**
    - Adjustment of cutting height
  - **NO**
    - Replacement of bed knife (bottom blade)

- **Does the front roller rattle up and down?**
  - **YES**
    - Replacement of front roller bearing
  - **NO**
    - Replacement of rear roller bearing

- **Does the rear roller rattle up and down?**
  - **YES**
    - Replacement of rear roller bearing
  - **NO**
    - Replacement of rear roller

- **Is there a proper balance between the bed knife (bottom blade) and cutting height?**
  - **YES**
    - Change of cutting height
    - Replacement of bed knife (bottom blade)
  - **NO**
    - Increasing of cutting height
    - If the groomer is installed: Remove the groomer, replace the roller bracket with the L-shaped bracket, and then bring the front roller closer to the reel cutter (cutting cylinder).

- **Do the greens have large undulations?**
  - **YES**
    - Application of topdressing sand
  - **NO**
    - Increasing of cutting height
    - Rehabilitation of greens (vertical cutting, etc.)

- **Are the greens matted?**
  - **YES**
    - Rehabilitation of greens (vertical cutting, etc.)
  - **NO**
    - Increasing of cutting height
    - Change of cutting direction

- **Are the greens sloped?**
  - **YES**
    - Change of cutting direction
  - **NO**
    - Contact your sales representative or dealer.

### Angled Mismatch

- **Is the cutting height on both sides adjusted to be the same?**
  - **YES**
    - Adjustment of cutting height
  - **NO**
    - Change of cutting direction

- **Is the bed knife (bottom blade) chipped?**
  - **YES**
  - **NO**
    - Replacement of bed knife (bottom blade)

- **Does the front roller rattle up and down?**
  - **YES**
  - **NO**
    - Replacement of front roller bearing
    - Replacement of front roller shaft

- **Does the rear roller rattle up and down?**
  - **YES**
  - **NO**
    - Replacement of rear roller bearing
    - Replacement of rear roller

- **Are the greens matted?**
  - **YES**
  - **NO**
    - Increasing of cutting height
    - Rehabilitation of greens (vertical cutting, etc.)

- **Do the greens have large undulations?**
  - **YES**
  - **NO**
    - Increase of cutting height
    - Contact your sales representative or dealer.

- **Are the greens sloped?**
  - **YES**
  - **NO**
    - Change of cutting direction

- **Are the left frame and right frame distorted?**
  - **YES**
  - **NO**
    - Contact your sales representative or dealer.
Overlap Marks

Has the bed knife (bottom blade) become curved?

- YES
  - Back lapping
  - Surface grinding of bed knife (bottom blade)
  - Replacement of bed knife (bottom blade)

- NO
  - Loosening of blade engagement
  - After loosening blade engagement, streaks still appear:
    - Is the spring pressure for the adjustment nut too light?
      - NO: Adjustment of spring compression length (See “Adjustment of Cutter Adjustment Spring”.)
      - YES: Clean and lightly apply grease to make sliding smoother, and then reassemble.

Does the reel cutter (cutting cylinder) move sideways?

- YES
  - Checking proper tightening of bearing on reel cutter (cutting cylinder) (See “Attaching Reel Cutter (Cutting Cylinder)”.)

- NO
  - Correctly driving in the outer ring
  - Replacement of reel bearing

Do the cam bush and frame rattle?

- YES
  - For replacing the frames, contact your sales representative or dealer.
    - Replacement of cam bush
    - Replacement of frame

- NO
  - Replacement of cam bush
  - Replacement of cutter pin

Is the reel bearing malfunctioning?

- YES
  - Profusely apply grease to the reel bearing before installing it. Replace the oil seal at the same time.
    - Replacement of reel bearing (Replace every year.)
Blade Does Not Cut

Are genuine parts used for the blades?  

YES  Replacement of blades with genuine parts

NO  

Is the blade face of the bed knife (bottom blade) too rough?  

YES  Replacement of cutter pin  

NO  

Is the blade engagement tight?  

YES  

NO  

Loosening of blade engagement

After loosening blade engagement, blades still do not cut.

Is the spring pressure for the adjustment lever too light?  

YES  

NO  

Has topdressing sand recently been applied?  

YES  Work in sand

NO  

Is the sliding of the cam bush and frame extremely rough?  

YES  Clean and lightly apply grease to make sliding smoother, and then reassemble.

NO  

Is the grit size of the lapping powder #200 – #400?  

YES  Use lapping powder with a grit size of #200 – #400.

NO  

Has topdressing sand recently been applied to the greens?  

YES  Work in sand

NO  

Is the blade contact uneven?  

YES  

NO  

Is the groomer being used?  

YES  

NO  

Is the blade engagement tight?  

YES  

NO  

Is there runout or bending in the reel cutter (cutting cylinder) shaft?  

YES  

NO  

Is there runout or bending in the reel cutter (cutting cylinder) shaft?  

YES  

NO  

Is the reel bearing outer ring driven in at an angle?  

YES  

NO  

Is the frame warped near the mounting location of the reel bearing?  

YES  

NO  

Is there runout or bending in the reel cutter (cutting cylinder) shaft?  

YES  

NO  

Is the reel bearing malfunctioning?  

YES  

NO  

Do the cam bush and cutter pin rattle considerably?  

YES  

NO  

Do the cam bush and frame rattle?  

YES  

NO  

For replacing the frames, contact your sales representative or dealer.

• Replacement of cam bush
• Replacement of frame

NO  

• Replacement of cam bush
• Replacement of cutter pin

Is the reel bearing malfunctioning?  

YES  

NO  

<Important>  
Profusely apply grease to the reel bearing before installing it. Replace the oil seal at the same time.

• Replacement of reel bearing (Replace every year.)

<Important>  
For replacing the frames, contact your sales representative or dealer.

• Replacement of cam bush
• Replacement of frame

<Important>  
For replacing the frames, contact your sales representative or dealer.

• Replacement of reel cutter (cutting cylinder)
• Replacement of reel cutter (cutting cylinder)
Uneven Blade Engagement

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

<table>
<thead>
<tr>
<th>Cause of unevenness</th>
<th>Measure to resolve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asymmetrical wear of reel cutter (cutting cylinder)</td>
<td>Cylindrical grinding of reel cutter (cutting cylinder)</td>
</tr>
<tr>
<td></td>
<td>Replacement of reel cutter (cutting cylinder)</td>
</tr>
<tr>
<td>Asymmetrical wear of bed knife (bottom blade)</td>
<td>Surface grinding of bed knife (bottom blade)</td>
</tr>
<tr>
<td></td>
<td>Replacement of bed knife (bottom blade)</td>
</tr>
<tr>
<td>Distortion of frames</td>
<td>Rearrange frames in parallel</td>
</tr>
</tbody>
</table>

Important

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

Important

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

Temporary measures:
- Adjustment with cam bushes
  "Adjusting CAM" (Page 5-12)
- Adjustment of spring pressure
  "Adjustment of Cutter Adjustment Spring" (Page 5-12)
EU Declaration of Conformity

Product identification
Product: Lawnmower
Make: BARONESS
Type: LM101
Version(s): Not Applicable
Starting Serial No.: 10281
Measured Sound Power Level: LWA 97.76 dB
Guaranteed Sound Power Level: LWA 98 dB
Manufacturer: Kyo eisha Co., Ltd.
Address: 1-26 Miyuki-cho, Toyokawa, Aichi-ken, Japan

Conforms to the following Directives
2006/42/EC Machinery (MD)
2014/30/EU Electromagnetic compatibility (EMC)
2000/14/EC Noise emissions from outdoor equipment

We have been designed and manufactured using the following specifications
ISO 5395-1 : 2013 (2006/42/EC)

Technical documentation
Keeper's Name: Kyo eisha Co., Ltd.
Keeper's Address: 1-26 Miyuki-cho, Toyokawa, Aichi-ken, Japan
Compiler of the technical file (2006/42/EC)
Name: Kyo eisha U.K. Ltd.
Address: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, the United Kingdom

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

Involved Notified Body (2000/14/EC)
Name: SNCH
Address: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certificate / Technical Documentation No.: SNCH*2000/14*2005/88*3238*01/TCLM101-01

Place: Japan
Date: 4 April 2019 (4/4/2019)
Signature: [Signature]
Name: Kimiya Kaneko
Position: Quality Dept. Manager

Déclaration de conformité UE

Identification du produit
Produit: Tondeuse à gazon
Fabriquant: BARONESS
Type: LM101
Version(s): Non applicable
Numéro de série de début: 10281
Niveau de puissance acoustique mesuré:
LWA 97.76 dB
Niveau de puissance acoustique garanti:
LWA 98 dB
Fabricant: Kyo eisha Co., Ltd.
Adresse: 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon

Conforme aux directives suivantes:
2006/42/CE Machine (MD)
2014/30/UE Compatibilité électromagnétique (CEM)
2000/14/CE Émissions sonores de l'équipement de plein air

Conception et fabrication en respect des spécifications suivantes:
ISO 5395-1 : 2013 (2006/42/CE)

Fiche technique
Marque: Kyo eisha Co., Ltd.
Adresse de la marque: 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon
Compilateur de la fiche technique (2006/42/CE)
Nom: Kyo eisha U.K. Ltd.
Adresse: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Royaume-Uni

Procedures d'évaluation de la conformité
Contrôle de production interne: module A (2006/42/CE)
Examen de type CE: module B (2014/30/UE)
Contrôle interne de la production avec évaluation de la fiche technique et vérification périodique (2000/14/CE)

Organisme notifié impliqué (2000/14/CE)
Nom: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
N° de certificat/Documentation technique: SNCH*2000/14*2005/88*3238*01/TCLM101-01
Declaración de conformidad de la UE

Identificación del producto
Producto: Cortacésped
Marca: BARONESS
Tipo: LM101
Versión: No aplicable
N.º de serie inicial: 10281
Nivel de potencia sonora medido: LWA 97.76 dB
Nivel de potencia sonora garantizado: LWA 98 dB
Fabricante: Kyoeisha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas
2006/42/CE Maquinaria (MD)
2014/30/UE Compatibilidad electromagnética (EMC)
2000/14/CE Emisiones sonoras de máquinas de uso al aire libre
Se ha diseñado y fabricado utilizando las siguientes especificaciones
ISO 5395-1 : 2013 (2006/42/CE)

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


EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONESS
Modell: LM101
Version(en): Nicht zutreffend
Startseriennummer: 10281
Gemessener Schallleistungspegel: LWA 97.76 dB
Garantiert Schallleistungspegel: LWA 98 dB
Hersteller: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Entspricht den folgenden Richtlinien
2006/42/EG Maschinenrichtlinie
2014/30/EU Elektromagnetische Verträglichkeit (EMV)
2000/14/EG Geräuschemission von im Freien betriebenen Geräten

Unter Anwendung der folgenden Bestimmungen entwickelt und hergestellt
ISO 12100 : 2010 (2006/42/EG)
ISO 5395-1 : 2013 (2006/42/EG)

Technische Dokumentation
Name des Halter: Kyoeisha Co., Ltd.
Adresse des Halter: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Technische Unterlagen erstellt von
Name: Kyoeisha U.K.Ltd.
Adresse: Unit 8 Hatch Industrial Park Grewell Road,Basingstoke Hampshire RG24 7NG, Großbritannien

Konformitätsbewertungsverfahren
Interne Produktion kontrolle: Modul A (2006/42/EG)
EG-Baumusterprüfung: Modul B (2014/30/EU)
Interne Produktionskontrolle mit Bewertung der technischen Unterlagen und regelmäßiger Überprüfung (2000/14/EG)

Beteiligte benannte Stelle (2000/14/EG)
Name: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburg

Bescheinigung/Technische Dokumentation Nr.: SNCH+2000/14*2005/88*5238*01/TCLM101-01
# EU-försäkran om överensstämmelse

**Produkteridentifier**
- **Produkt:** Gräsklippare
- **Märke:** BARONÉSS
- **Typ:** LM101
- **Version(er):** Ej aktuellt
- **Serienummer startar på:** 10281
- **Uppnått ljudbelägringsnivå:** LwA: 97,7 dB
- **Garanterad ljudbelägringsnivå:** LwA: 98 dB
- **Tillverkare:** Kyoeisha Co., Ltd.
- **Adress:** 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

**Uppfyller följande direktiv**
- 2006/42/EG Maskindirektivet
- 2014/30/EU Elektromagnetisk kompatibilitet (EMC)
- 2000/14/EG Bullermission från utomhusutrustning

**Följande kravspecifikationer har följts vid konstruktion och tillverkning**
- ISO 5395-1:2013 (2006/42/EG)

**Teknisk dokumentation**
- **Innehavarens namn:** Kyoeisha Co., Ltd.
- **Innehavarens adress:** 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan
- **Namn:** Kyoeisha U.K.Ltd.
- **Adress:** Unit 5 Hatch Industrial Park Grewel Road, Basingstoke Hampshire RG24 7NG, Storbritannien

**Förrående för bedömning av överensstämmelse**
- Intern produktionskontroll: Modul A (2006/42/EG)
- EG-typprovning: Modul B (2014/30/EU)
- Intern kontroll av produktion med fastställda av teknisk dokumentation och periodiska kontroller (2000/14/EG)

**Annat organ (2000/14/EG)**
- **Namn:** SNCH
- **Adress:** 11, Route de Sandweiler 5230 Sandweiler Luxembourg
- **Certifikat/Teknisk dokumentation nummer:** SNCH+2000/14*2005/8®3238*01/TCLM101-01