"Required reading"

Read this manual and the Owner's Manual for the engine before using the 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 your local 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.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Danger" /></td>
<td>This symbol indicates that serious injury or death will occur if the warning is ignored.</td>
</tr>
<tr>
<td><img src="image" alt="Warning" /></td>
<td>This symbol indicates that serious injury or death may occur if the warning is ignored.</td>
</tr>
<tr>
<td><img src="image" alt="Caution" /></td>
<td>This symbol indicates that injury or damage to property may occur if the warning is ignored.</td>
</tr>
<tr>
<td><img src="image" alt="Important" /></td>
<td>This symbol indicates precautions on the mechanism of the machine.</td>
</tr>
</tbody>
</table>
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.
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Failure to adequately follow these safety precautions may cause an accident resulting in injury or death.

**Danger**

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

### Safe Operating Practices

#### Training

1. Read this manual and other training material carefully.
   Be familiar with the controls, safety signs, and the proper use of the equipment.
2. If the operator or mechanic can not read English it is the owner's responsibility to explain this manual to them.
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 lawnmower while the engine is running.
17. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
18. Never operate while people, especially children, or pets are nearby.
19. Slow down and use caution when making turns and crossing roads and sidewalks.
20. Stop the blades rotating before crossing surfaces other than grass.
21. Disengage drive to attachments when transporting or not in use.
22. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
23. Do not operate the machine under the influence of alcohol or drugs.
24. Take care when loading or unloading the machine into a trailer or a truck.
    Load or unload the machine in a flat and safe place.
    Before loading or unloading, set the parking brake on the truck or trailer, stop the engine, and chock the wheels.
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 The 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.)
## Specifications

### Specifications List

#### LM56GC

<table>
<thead>
<tr>
<th>Specifications</th>
<th>LM56GC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>LM56GC</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total length</td>
<td>with grass catcher 55.51 in 141 cm</td>
</tr>
<tr>
<td>Total width</td>
<td>without travelling wheel 37.01 in 94 cm</td>
</tr>
<tr>
<td>Total height</td>
<td>Steering handle 41.73 in 106 cm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>224.87 lb 102 kg</td>
</tr>
<tr>
<td>Grass catcher *1</td>
<td>7.28 lb 3.3 kg</td>
</tr>
<tr>
<td>Groomer *1</td>
<td>7.94 lb 3.6 kg</td>
</tr>
<tr>
<td>Travelling wheel (for one machine) *1</td>
<td>15.21 lb 6.9 kg</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. 118 cm³ (0.118 L)</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 Gasoline 2.0 dm³ (2.0 L)</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS · h (rated output) 323 g/kW · h (rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gals 0.56 dm³ (0.56 L)</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 in 55.7 cm</td>
</tr>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.118 (0.177) - 1.142 in [0.118 (0.177) - 1.063 in] *2 3.0 (4.5) - 29.0 mm [3.0 (4.5) - 27.0 mm] *2</td>
</tr>
<tr>
<td><strong>Blades</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td>Traveling Mechanical</td>
</tr>
<tr>
<td>Speed (HST)</td>
<td>-</td>
</tr>
<tr>
<td>Speed (Mechanical)</td>
<td>2.98 mph (@3,000 rpm) 4.8 km/h (@3,000 rpm)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>0.53 acres/hour (2.98 mph x mowing width x 0.8) 2,139 m²/h (4.8 km/h x mowing width x 0.8)</td>
</tr>
<tr>
<td>Maximum inclination for operation</td>
<td>-</td>
</tr>
<tr>
<td><strong>Tire size</strong></td>
<td>4.10/3.50-6</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Engine plug</strong></td>
<td>NGK BPR4ES</td>
</tr>
<tr>
<td><strong>Front groomer</strong></td>
<td>Working width 20.08 in 51.0 cm</td>
</tr>
<tr>
<td><strong>Number of Blades</strong></td>
<td>78</td>
</tr>
<tr>
<td>Dethatching Reel</td>
<td>Working width</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
</tr>
<tr>
<td></td>
<td>Number of Blades</td>
</tr>
<tr>
<td>Rotary Brush</td>
<td>Working width</td>
</tr>
<tr>
<td></td>
<td>Turning Diameter</td>
</tr>
</tbody>
</table>

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

*1: Total weight includes *1 parts.

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

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

The value in the brackets ( ) is the mowing height of the machine equipped with a standard bed knife.
**LM66GC**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>LM66GC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length</td>
<td>55.51 in</td>
</tr>
<tr>
<td>with grass catcher</td>
<td>141 cm</td>
</tr>
<tr>
<td>Total width</td>
<td>40.55 in</td>
</tr>
<tr>
<td>without travelling wheel</td>
<td>103 cm</td>
</tr>
<tr>
<td>Total height</td>
<td>41.73 in</td>
</tr>
<tr>
<td>Steering handle</td>
<td>106 cm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>240.30 lb</td>
</tr>
<tr>
<td>Grass catcher</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Groomer</td>
<td>8.82 lb</td>
</tr>
<tr>
<td>Travelling wheel (for one machine)</td>
<td>15.21 lb</td>
</tr>
<tr>
<td></td>
<td>109 kg</td>
</tr>
<tr>
<td></td>
<td>3.6 kg</td>
</tr>
<tr>
<td></td>
<td>4.0 kg</td>
</tr>
<tr>
<td></td>
<td>6.9 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minimum turning radius</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Engine</th>
<th></th>
</tr>
</thead>
<tbody>
<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></td>
<td>118 cm³ (0.118 L)</td>
</tr>
<tr>
<td>Maximum output</td>
<td>2.6 kW (3.5 PS)/3,600 rpm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fuel tank capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>0.53 U.S.gals</td>
</tr>
<tr>
<td></td>
<td>2.0 dm³ (2.0 L)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fuel consumption</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>237.57 g/PS · h (rated output)</td>
<td>323 g/kW · h (rated output)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine oil capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.15 U.S.gals</td>
<td>0.56 dm³ (0.56 L)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coolant volume</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic tank capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Operating width (Mowing width) | 26 in |
|                               | 64.6 cm |

| Operating height (Mowing height) | 0.118 (0.177) - 1.142 in |
|                                  | 3.0 (4.5) - 29.0 mm |
|                                  | 0.118 (0.177) - 1.063 in |
|                                  | 3.0 (4.5) - 27.0 mm |

<table>
<thead>
<tr>
<th>Blades</th>
<th>11</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Drive</th>
<th>Traveling Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mowing Mechanical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speed (HST)</th>
<th>2.98 mph (@3,000 rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.8 km/h (@3,000 rpm)</td>
</tr>
</tbody>
</table>

| Speed (Mechanical) | 0.61 acres/hour (2.98 mph x mowing width x 0.8) |
|                   | 2,481 m²/h (4.8 km/h x mowing width x 0.8) |

<table>
<thead>
<tr>
<th>Efficiency</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Maximum inclination for operation</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tire size</th>
<th>4.10/3.50-6</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tire pneumatic pressure</th>
<th>17.40 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120 kPa (1.2 kgf/cm²)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Battery</th>
<th>-</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Engine plug</th>
<th>NGK BPR4ES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Front groomer</th>
<th>Working width</th>
<th>23.74 in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Blades</td>
<td>92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dethatching Reel</th>
<th>Working width</th>
<th>23.46 in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Blades</td>
<td>46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rotary Brush</th>
<th>Working width</th>
<th>22.63 in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Turning Diameter</td>
<td>2.36 in</td>
</tr>
<tr>
<td></td>
<td>57.5 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.0 cm</td>
<td></td>
</tr>
</tbody>
</table>
The factory default maximum engine rpm is 3,400 rpm.

*1: Total weight includes "1 parts.

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

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

The value in the brackets ( ) is the mowing height of the machine equipped with a standard bed knife.
### LM66TC

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th>LM66TC</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Dimensions</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total length</strong> with grass catcher</td>
<td>55.51 in</td>
</tr>
<tr>
<td><strong>Total width</strong> without travelling wheel</td>
<td>40.55 in</td>
</tr>
<tr>
<td><strong>Total height</strong> Steering handle</td>
<td>41.73 in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weight</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total weight (empty fuel tank)</strong></td>
<td>235.89 lb</td>
</tr>
<tr>
<td><strong>Grass catcher</strong></td>
<td>7.94 lb</td>
</tr>
<tr>
<td><strong>Groomer</strong></td>
<td>8.82 lb</td>
</tr>
<tr>
<td><strong>Travelling wheel (for one machine)</strong></td>
<td>15.21 lb</td>
</tr>
</tbody>
</table>

| **Minimum turning radius** | - |

<table>
<thead>
<tr>
<th><strong>Engine</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>HONDA GX120</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
</tr>
<tr>
<td><strong>Total displacement</strong></td>
<td>7.20 cu.in.</td>
</tr>
<tr>
<td><strong>Maximum output</strong></td>
<td>2.6 kW (3.5 PS)/3,600 rpm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Fuel tank capacity</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gasoline</strong></td>
<td>0.53 U.S.gals</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Fuel consumption</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated output</strong></td>
<td>237.57 g/PS • h</td>
</tr>
</tbody>
</table>

| **Engine oil capacity** | 0.15 U.S.gals | 0.56 dm³ (0.56 L) |

| **Coolant volume** | - |

| **Hydraulic tank capacity** | - |

| **Operating width (Mowing width)** | 26 in | 64.6 cm |

| **Operating height (Mowing height)** | 0.177 (0.276) - 1.142 in | 4.5 (7.0) - 29.0 mm |

| **Blades** | 7 |

<table>
<thead>
<tr>
<th><strong>Drive</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Traveling</strong></td>
<td>Mechanical</td>
</tr>
<tr>
<td><strong>Mowing</strong></td>
<td>Mechanical</td>
</tr>
</tbody>
</table>

| **Speed (HST)** | - |

| **Speed (Mechanical)** | 2.73 mph (@3,000 rpm) | 4.4 km/h (@3,000 rpm) |

<table>
<thead>
<tr>
<th><strong>Efficiency</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated output</strong></td>
<td>0.56 acres/hour</td>
</tr>
</tbody>
</table>

| **Maximum inclination for operation** | - |

| **Tire size** | 4.10/3.50-6 |

| **Tire pneumatic pressure** | 17.40 psi | 120 kPa (1.2 kgf/cm²) |

| **Battery** | - |

| **Engine plug** | NGK BPR4ES |

<table>
<thead>
<tr>
<th><strong>Front groomer</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working width</strong></td>
<td>23.74 in</td>
</tr>
<tr>
<td><strong>Number of Blades</strong></td>
<td>92</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dethatching Reel</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working width</strong></td>
<td>23.46 in</td>
</tr>
<tr>
<td><strong>Number of Blades</strong></td>
<td>46</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Rotary Brush</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working width</strong></td>
<td>22.63 in</td>
</tr>
<tr>
<td><strong>Turning Diameter</strong></td>
<td>2.36 in</td>
</tr>
</tbody>
</table>
The factory default maximum engine rpm is 3,400 rpm.

1: Total weight includes parts.

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

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

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

### Sound Pressure Level

**LM56**

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

**LM66**

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

### Vibration Level

**LM56**

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

**LM66**

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

### Sound Power Level

**LM56**

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

**LM66**

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

### Carbon Dioxide (CO₂) Emissions Measurement

For CO₂ emissions measurement on Honda engine, refer to the following website.

http://www.honda-engines-eu.com/co2-engines

This CO₂ measurement results from testing over a fixed test cycle under laboratory conditions of a(an) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.
Names of Each Section

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

Regulation Decals

Positions of Regulation Decals

A. Serial number plate
B. Specification decal
C. Noise emission decal
D. Year of manufacture decal

Description of Regulation Decals

Serial Number Plate

The serial number plate indicates the model and serial number of the machine.
**Specification Decal**  
*(For Europe)*  
The Specification decal indicates the CE marking, model, and weight, etc.

![Specification Decal](image1)

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

![Noise Emission Decal](image2)

**Year of Manufacture Decal**  
*(For Europe)*  
The year of manufacture decal indicates the year when this machine was manufactured.

![Year of Manufacture Decal](image3)

---

**Safety Signs and Instruction Signs**

**About Safety Signs and Instruction Signs**

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

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

**Positions of Safety Decals and Instruction Decals**

![Positions of Safety Decals and Instruction Decals](image4)

1. Caution safety instruction decal  
2. Caution to mutilation decal  
3. Caution to noise decal  
4. Warning engine oil decal  
5. Greasing 10HR decal
Description of Safety Decals and Instruction Decals

Caution Safety Instruction Decal

K4205001590
DECAL, CAUTION SAFETY INSTRUCTION

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.

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

Warning
May cut your hand or leg - Stop the cutter rotation and engine. Otherwise you may get injured.
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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Connection of Engine Switch Cord ......... Page 4-2
Installing The Stand ............................. Page 4-2
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Inspection Before Use ......................... Page 4-3

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Bed Knife (Bottom Blade) .................. Page 4-3
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Transporting Procedure ............... Page 4-30
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Before Long-Term Storage ........ Page 4-30
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.

Connection of Engine Switch Cord

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

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.

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

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.

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.

Inspection Before Use

Be sure to perform an inspection before you start using the machine 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.
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.

Important

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

Important

Replace the air cleaner elements when it gets damaged or dirty.
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. Pull up the brake lever and make sure that the brake can operate completely.
2. Pull the brake lever up to the top and make sure that it can lock the brake lever.
3. Make sure that the brake is not applied even slightly after releasing 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.
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.

| 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. |
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.

---

**Table: Fuel Supply**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuel strainer</td>
</tr>
<tr>
<td>2</td>
<td>Filling opening</td>
</tr>
<tr>
<td>3</td>
<td>Maximum limit of fueling</td>
</tr>
<tr>
<td>A</td>
<td>2.5 cm (0.98 in)</td>
</tr>
</tbody>
</table>
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

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.
### General Bolt

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>M</th>
<th>Strength classification 4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>3 - 5</td>
<td>30.59 - 50.99</td>
</tr>
<tr>
<td>M6</td>
<td>7 - 9</td>
<td>71.38 - 91.77</td>
</tr>
<tr>
<td>M8</td>
<td>14 - 19</td>
<td>142.76 - 193.74</td>
</tr>
<tr>
<td>M10</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>M12</td>
<td>52 - 67</td>
<td>530.24 - 683.20</td>
</tr>
<tr>
<td>M14</td>
<td>70 - 94</td>
<td>713.79 - 958.52</td>
</tr>
<tr>
<td>M16</td>
<td>88 - 112</td>
<td>897.34 - 1142.06</td>
</tr>
<tr>
<td>M18</td>
<td>116 - 144</td>
<td>1,182.85 - 1,468.37</td>
</tr>
<tr>
<td>M20</td>
<td>147 - 183</td>
<td>1,498.96 - 1,866.05</td>
</tr>
<tr>
<td>M22</td>
<td>295</td>
<td>3,008.12</td>
</tr>
<tr>
<td>M24</td>
<td>370</td>
<td>3,772.89</td>
</tr>
<tr>
<td>M27</td>
<td>550</td>
<td>5,608.35</td>
</tr>
<tr>
<td>M30</td>
<td>740</td>
<td>7,545.78</td>
</tr>
</tbody>
</table>

### Heat-treated Bolt

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>Strength classification 8.8</th>
<th>Strength classification 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>5 - 7</td>
<td>50.99 - 71.38</td>
</tr>
<tr>
<td>M6</td>
<td>8 - 11</td>
<td>81.58 - 112.17</td>
</tr>
<tr>
<td>M10</td>
<td>45 - 57</td>
<td>458.87 - 581.23</td>
</tr>
<tr>
<td>M12</td>
<td>67 - 85</td>
<td>683.20 - 866.75</td>
</tr>
<tr>
<td>M14</td>
<td>106 - 134</td>
<td>1,080.88 - 1,366.40</td>
</tr>
<tr>
<td>M16</td>
<td>152 - 188</td>
<td>1,549.94 - 1,917.04</td>
</tr>
<tr>
<td>M18</td>
<td>200 - 240</td>
<td>2,039.40 - 2,447.28</td>
</tr>
<tr>
<td>M20</td>
<td>245 - 295</td>
<td>2,498.27 - 3,008.12</td>
</tr>
<tr>
<td>M22</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M24</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M27</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M30</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

Tightening Torque by Model

LM18GC/LM56GC/LM66GC/LM66TC

Tighten the following bolts and nuts at the torque specified in the table.
For thread locking adhesive, apply a middle strength thread locker (ThreeBond 1322 or equivalent anaerobic sealant).

<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></td>
<td></td>
<td></td>
<td>N-m</td>
<td>kgf-cm</td>
</tr>
<tr>
<td>Bedknife</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>Reel shaft</td>
<td>K0185160002</td>
<td>NUT, LEFT-HANDED P1.5 M16-3</td>
<td>36</td>
<td>367.09</td>
</tr>
<tr>
<td>Reel shaft</td>
<td>LM56G--1204Z0</td>
<td>GEAR, 20-TEETH</td>
<td>36</td>
<td>367.09</td>
</tr>
<tr>
<td>(Groomer model)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front roller</td>
<td>K6083000042</td>
<td>PIN, STEPPED M15-19</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Drum wheel</td>
<td>K001A080251</td>
<td>BOLT, WITH HEX. HOLE M8-25</td>
<td></td>
<td>To keep the fitting from coming off</td>
</tr>
<tr>
<td>Handle</td>
<td>K001010252</td>
<td>BOLT, HT M10-25</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Groomer</td>
<td>K0160000602</td>
<td>NUT, SPECIAL P1 M17 WITH M4</td>
<td>5 - 10</td>
<td>50.99 - 101.97</td>
</tr>
<tr>
<td></td>
<td>K6083000143</td>
<td>PIN, STEPPED FOR FIXING (R) CASE</td>
<td>6</td>
<td>61.18</td>
</tr>
</tbody>
</table>
Adjustment Before Operating

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.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bolt</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Conical spring washer</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Washer</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Low</td>
<td></td>
</tr>
</tbody>
</table>

Adjustment of IGCA (Independent Grass Catcher Arm)

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

Important
When adjusting the height of handle, adjust IGCA.

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

Adjustment of the link rod:

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

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

Adjustment of gap for the grass catcher:

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

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

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

**Important**
The shaft has a through-hole into which the clip pin will be inserted.
To adjust length always turn the shaft 180 degrees to keep holes aligned.

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

4. Tighten the right and left locknuts.

**Adjustment of IGCA (Independent Grass Catcher Arm)_003**

1. Grass catcher
2. Stay
A. Gap

**Adjustment of IGCA (Independent Grass Catcher Arm)_004**

1. Locknut
2. Clip pin
3. Shaft

**Adjustment of Blade Engagement**

**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.

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

**Adjustment of Blade Engagement_001**

1. Traveling/Working selector lever
A. Reel ON
B. Travel ON
C. Travel OFF
3. With the cutter adjustment nut, adjust the engagement between the reel cutter (cutting cylinder) and the bed knife (bottom blade) so that newspaper (one sheet) will be cleanly cut by the edge of both blades when the blades in their entirety come slightly into contact with each other.

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

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

- If there is a gap between the blade edges: Loosen (rotate counter-clockwise) the cutter adjustment nut to apply more contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
- If the reel cutter (cutting cylinder) is too tight to turn: Tighten (rotate clockwise) the cutter adjustment nut to reduce the contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
- If the blades still cannot cut well: Perform back lapping of the reel cutter (cutting cylinder).

---

**Adjustment of Cutting Height**

Adjust the cutting height to fit your cutting work.

**Important**

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

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

**Important**

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

The recommended minimum cutting height according to the blade thickness of the bed knife (bottom blade) is as indicated below.
<table>
<thead>
<tr>
<th>Type</th>
<th>Blade type</th>
<th>Thickness of blade (mm/inch)</th>
<th>Rough minimum cutting height (mm/inch)</th>
<th>Code</th>
<th>Part name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM56GC</td>
<td>Standard blade</td>
<td>1.0/0.039</td>
<td>2.5/0.098</td>
<td>K2511000490</td>
<td>1 Bed knife 22</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5/0.059</td>
<td>3.0/0.118</td>
<td>K2511000270</td>
<td>1.5 Bed knife 55G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0/0.079</td>
<td>3.5/0.138</td>
<td>K2511000280</td>
<td>2 Bed knife 55G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000050</td>
<td>2.5 Bed knife 55G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000240</td>
<td>2.5 Bed knife 55G-47 Offset 5 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High-speed-steel-tipped blade</td>
<td>3.0/0.118</td>
<td>4.5/0.177</td>
<td>K2510000060</td>
<td>3 Bed knife 62.5-559</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000160</td>
<td>5 Bed knife 62.5-559</td>
<td></td>
</tr>
<tr>
<td>LM66GC</td>
<td>Standard blade</td>
<td>1.5/0.059</td>
<td>3.0/0.118</td>
<td>K2511000310</td>
<td>1.5 Bed knife 65G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0/0.079</td>
<td>3.5/0.138</td>
<td>K2511000300</td>
<td>2 Bed knife 65G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000200</td>
<td>2.5 Bed knife 65G</td>
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<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000250</td>
<td>2.5 Bed knife 65G-47 Offset 5 mm</td>
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<tr>
<td></td>
<td>High-speed-steel-tipped blade</td>
<td>3.0/0.118</td>
<td>4.5/0.177</td>
<td>K2510000150</td>
<td>3 Bed knife 62.5-648.4</td>
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<tr>
<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000170</td>
<td>5 Bed knife 62.5-648.4</td>
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<tr>
<td>LM66TC</td>
<td>High-speed-steel-tipped blade</td>
<td>3.0/0.118</td>
<td>4.5/0.177</td>
<td>K2510000150</td>
<td>3 Bed knife 62.5-648.4</td>
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<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000170</td>
<td>5 Bed knife 62.5-648.4</td>
<td></td>
</tr>
</tbody>
</table>

![Diagram](image-url)  
Cutting Height and Blade Thickness of Bed Knife (Bottom Blade)
Adjustment of Front Roller

You can adjust the cutting height by moving the front roller up or down. The cutting height can be adjusted to the maximum of 29.0 mm (1.141 in).

1. Set the slide caliper to the required cutting height, adjust the position of the bottom of the head of the small screw for cutting height setup in the cutting height gauge, and then securely lock it with a fly nut.
2. Loosen the nut securing the roller adjuster.
3. Position the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.

4. Move the front roller up or down with the roller adjuster to position the front roller so that there is no gap between the bottom of the head of the small screw for cutting height setup in the cutting height gauge and the edge of the bed knife (bottom blade).
5. Follow the same steps to adjust the cutting height on the opposite side.
6. Tighten the nuts that secure the left and right roller brackets to secure them firmly.
7. Again, make sure that the cutting height is at the required position by positioning the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.
Adjustment of Groomer

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

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

**Important**
Set the grooming height more than 0.0 mm (0.00 in) from the ground. Allowing the front groomer to go into the ground may damage the groomer shaft.

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

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

1. Set the slide caliper to the required cutting height, adjust the position of the bottom of the head of the small screw for groomer setup in the cutting height gauge, and then securely lock it with a fly nut.

2. Loosen the nuts securing the left and right groomer adjustment screws.

3. Loosen left and right special nut A.

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

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

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

### Parts List

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dethatching blade</td>
</tr>
<tr>
<td>2</td>
<td>Small screw for groomer setup</td>
</tr>
<tr>
<td>3</td>
<td>Cutting height gauge</td>
</tr>
<tr>
<td>4</td>
<td>Front roller</td>
</tr>
<tr>
<td>A</td>
<td>Groomer height</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Handling Instructions

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

A. Cutting height
B. Groomer height

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

Note:
In the case that the front groomer is not used, you do not have to change the set groomer height.
Loosen the nuts fixing the right and left groomer adjustment screws, lift the groomer and tighten the right and left nuts to raise the front groomer so that it cannot contact the lawn.

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

Procedure to Start / Stop Engine

Start / Stop of Engine

Procedure to Start Engine

![Image of engine switch]

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

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

Warning:
Make sure that the engine clutch cover is installed in the prescribed 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>

Procedure to Start Engine_002

<table>
<thead>
<tr>
<th>1</th>
<th>Engine part</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Brake lock</td>
</tr>
</tbody>
</table>
3. Don't grip the main clutch lever.

6. Shift the throttle lever halfway from low speed to high speed position.

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

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

5. Set the engine switch to the "ON" position.
**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. Pull the starter grip swiftly, and the engine will start.

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

---

**Procedure to Stop Engine**

1. Don't grip the main clutch lever.

   ![Diagram of Procedure to Stop Engine_001]

   | 1 Main clutch lever |
   | 2 Safety lock switch |
   | A ON |
   | B OFF |

2. Set the throttle lever to low speed position.

   ![Diagram of Procedure to Stop Engine_002]

   | 1 Throttle lever |
   | A High speed |
   | B Low speed |

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

   ![Diagram of Procedure to Stop Engine_003]
4. Set the fuel cock to the "Close" position.

### Operation of Each Section

#### 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.
Description of Operation Decals

Engine Switch Mark

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

Accelerator Mark

K4203000700
DECAL, ACCELERATOR
It illustrates Low/High speed of the engine rotation speed.

Brake Mark

K4209001200
DECAL, BRAKE
It illustrates the locking position for the parking brake.

Clutch Decal

K4203001110
STICKER, CLUTCH
This indicates operating positions (traveling/working) for the reel cutter (cutting cylinder) and drum.
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.

<table>
<thead>
<tr>
<th></th>
<th>Normal rotation</th>
<th>Stop</th>
<th>Reverse rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th></th>
<th>Light switch</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>OFF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

- **A** ON
- **B** OFF

**Brake Lever**

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

The brake lever is located in the handle. Pull up the brake lever to activate braking and the travel of the machine is stopped. Pull the brake lever up to the top and the brake lever is locked with brake applied. Push down the brake lever to release the brake.

Note:
Lock the brake lever to apply Parking Brake.

**Throttle Lever**

The throttle lever is located in the handle and enables you to adjust the engine rpm. Move the throttle lever toward "High speed" position to increase the engine rpm, and toward "Low speed" position to reduce the rpm.

Note:
The factory default engine rpm (maximum) is set to 3,400 rpm. Operate at about 3,000 rpm.

**Safety Lock Switch**

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

Grip the main clutch lever while pushing the safety lock switch 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.

---

Traveling/Working Selector Lever

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

The traveling/working selector lever is located on top of the left frame and has three positions. When the lever is set to the "Reel ON" position, the drum and reel cutter (cutting cylinder) operate and cutting is performed. When the lever is set to the "Travel ON" position, only the drum operates and the machine travels. When the lever is set to the "Travel OFF" position, both the drum and reel cutter (cutting cylinder) are not driven.
Air Adjusting Plate

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

The air adjusting plate is attached on the reel cover. The dispersing angle of clippings can be adjusted by changing the position of the air adjusting plate. Adjust according to the lawn conditions. The air adjusting plate can be moved closer to the reel cutter (cutting cylinder) when the lawn condition is "dry." The air adjusting plate can be moved away from the reel cutter (cutting cylinder) when the lawn condition is "wet."

<table>
<thead>
<tr>
<th>1</th>
<th>Air adjusting plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Reel cutter (Cutting cylinder)</td>
</tr>
<tr>
<td>3</td>
<td>Reel cover</td>
</tr>
<tr>
<td>A</td>
<td>Close</td>
</tr>
<tr>
<td>B</td>
<td>Away</td>
</tr>
</tbody>
</table>

Engine Clutch Cover

The engine clutch cover is located on the left side of the engine and covers the engine clutch. Open or close the engine clutch cover by removing or installing the lock bolt.

| 1 | Engine clutch cover |
| 2 | Lock bolt |
| A | Loosen |
| B | Tighten |

Groomer Clutch Lever

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

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

The groomer clutch lever is located on the upper side of the right frame and has three positions. When the lever is set to the "Normal " position, the groomer rotates in the same direction as the reel cutter (cutting cylinder). When the lever is set to the "Reverse " position, the groomer rotates in the opposite direction as the reel cutter (cutting cylinder). When the lever is set to the "Stop" position, the groomer will not rotate.
Note:
Depending on the specifications, this function may not be available.
(IGCA can be installed onto the LM18GC/LM56GC.)
IGCA is located above the mower.
The IGCA is a mechanism that prevents the mowing attitude of the mower from changing, even when there is an increase in the volume of clippings entering the grass catcher. It eliminates as much as possible the transfer of rough handle movements causing changes in the mower's attitude.
Since the mower is stabilized while the lawn is mowed, even if the handle is treated roughly, the cutting height does not change from the start of mowing the green to the end.
Stable lawn mowing work can be performed regardless of the operator's skill level and machine proficiency level, enabling all greens to be mowed at a uniform cutting height.

Issue 2:
The cutting height is uneven due to the up-and-down movements of the mower caused by the operator's handle movements.
Solution:
The grass catcher and handle are linked, eliminating as much as possible the transfer of rough handle movements causing changes in the mower's attitude. By adjusting the link rods, the handle can remain centered in the handle adjuster, and uniform mower contact pressure can be achieved.
Effect 1:
Regardless of skill level, any operator can mow at a uniform cutting height, as long as the handle can be adjusted within the range of the hole in the handle adjuster. This is effective when accelerating very quickly or mowing undulations.

Effect 2:
Since the load of the grass catcher does not affect the front roller, it is possible to reduce sinking (gouging or digging) caused by the front roller touching the ground when entering the green.

Travel of Machine

Traveling Procedure

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under any circumstances drive the machine at such a speed that you can stop it immediately for emergencies.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not start to move or stop the machine abruptly.</td>
</tr>
</tbody>
</table>

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

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

Note:
The factory default maximum engine rotation speed is set to 3,400 rpm. Operate at about 3,000 rpm.

Removing/Installing Traveling Tires

Important
Mow with the traveling tires removed.

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

Removal of traveling tires:
1. Set the machine on its stand.

2. While sliding the lever of the wheel mounting plate and holding it in the released position, pull the traveling tire toward you to remove it.
3. Follow the same steps to remove the traveling tire on the opposite side. Installation of traveling tires:

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

**Important**
Make sure that the wheel mounting plate fits into the groove in the drum shaft. If they do not engage, the wheel may fall off.

For installing the traveling tires, reverse the removing procedure.

**Removing/Installing Grass Catcher**

**Caution**
Stop the engine before removing / installing the grass catcher.

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

Installing Grass Catcher:
Attach the right & left latches of the grass catcher to the roller brackets.
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.

Long-Term 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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Position of Mower during Maintenance ....................... Page 5-2
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  Adjusted Values .................................... Page 5-5
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Maintenance Precautions

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

Important
Use tools appropriate for each maintenance operation.

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

Position of Mower during Maintenance

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

<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>Remarks</th>
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<td>Clean engine and circumference of the muffler cover</td>
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<td>Check every 300 hours or every year whichever comes earlier</td>
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<td>*1 Remove carbon in combustion chamber</td>
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<td>*1 Check fuel hoses and clamp bands</td>
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LM18GC/LM56GC/LM66GC/LM66TC

Follow the maintenance schedule below.

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

*1 When Required

*2 Maintenance Item
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<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>
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<th>When Required</th>
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<td>Adjust engine clutch gap</td>
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Maintenance schedules differ according to greasing points.
## Maintenance Schedule

<table>
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<tr>
<th>Maintenance Item</th>
<th>Before Work</th>
<th>After Work</th>
<th>Every 10 hrs.</th>
<th>Every 20 hrs.</th>
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<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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<td>clean and grease bedknife eccentric bushes</td>
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<td>backlap blades</td>
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<td>regrind blades (Reel cutter and Bed knife)</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<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>Item</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter adjustment spring</td>
<td>50.0 mm</td>
<td>1.97 in</td>
</tr>
<tr>
<td>Length of coil spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reel cutter shaft bearing preload spring</td>
<td>11.5 mm</td>
<td>0.453 in</td>
</tr>
<tr>
<td>Total length of spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reel cutter rotation torque</td>
<td>0.8 - 1.0 N • m (8 - 10 kgf • cm)</td>
<td></td>
</tr>
<tr>
<td>Engine clutch</td>
<td>0.5 - 1.0 mm (0.020 - 0.039 in)</td>
<td></td>
</tr>
<tr>
<td>Gap between engine clutch and clutch facing</td>
<td></td>
<td></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</td>
<td>2.40 in</td>
</tr>
<tr>
<td>Total length of spring</td>
<td></td>
<td></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. Frame &amp; Transmission</td>
<td>7</td>
<td>A, B</td>
</tr>
<tr>
<td>2. Differential gear</td>
<td>1</td>
<td>A, -</td>
</tr>
<tr>
<td>3. Reel bearing</td>
<td>2</td>
<td>- , B</td>
</tr>
<tr>
<td>4. Drum housing</td>
<td>2</td>
<td>- , B</td>
</tr>
<tr>
<td>5. Front roller</td>
<td>2</td>
<td>- , B</td>
</tr>
<tr>
<td>6. Groomer</td>
<td>4</td>
<td>A, B</td>
</tr>
</tbody>
</table>

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

1. Frame & Transmission
   - There are seven points in total on the left and right.
     - Right side

   - Left side

2. Differential gear
3. Reel bearing
Before the initial greasing, remove the elastic adhesive on the tips of the grease nipples with a flat-blade screwdriver, etc.

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

5. Front roller
There is one point each on the left and right.

6. Groomer
Note: Depending on the specifications, this function may not be available.
Maintenance Work

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

If the diameter of the reel cutter (cutting cylinder) becomes smaller, adjust the cutter adjustment spring.
1. Adjust the blade engagement.
2. Loosen the spring adjusting screw and the nut, and then adjust the length of the coil spring to 50.0 mm (1.97 in).

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 of Reel Cutter (Cutting Cylinder)

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.

**Warning**
During back lapping, the reel cutter (cutting cylinder) rotates. Keep hands and feet away from moving parts.

**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**
Do not perform back lapping with any other persons.

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

2. Have a lapping machine or the lapping handle ready.

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

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

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

**Important**
Check the sharpness of the blade by checking the blade engagement after cutting grass.
1. Traveling/Working selector lever
   A. Reel ON
   B. Travel ON
   C. Travel OFF

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

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

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

8. With a roller receiver, jack stand, etc., position the machine so that the bed knife (bottom blade) is level.

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

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

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

11. Apply the abrasive evenly with the brush on the top side of reel cutter (cutting cylinder) where the newspaper was cut well or of chalk-marked locations. (Never apply to blunt areas.)

12. Rotate the reel cutter (cutting cylinder) for a while and stop its rotation when the sound of contact is lost.
    - Turn off the lapping machine.
    - Otherwise, stop rotating the lapping handle.
13. Remove the lapping machine or lapping handle.
14. Wash off or wipe off with a cloth, etc., the abrasive from the reel cutter (cutting cylinder), and then check the sharpness.
15. Repeat steps 5 to 14 until the entire range (three or four points) of the reel cutter (cutting cylinder) is uniformly sharpened.
16. Finally, apply abrasive to the entire blade width of the reel cutter (cutting cylinder) and perform final back lapping.

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

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

**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.

<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>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>128 mm (5.04 in)</td>
<td>51.3 mm (2.02 in)</td>
</tr>
<tr>
<td>118 mm (4.65 in)</td>
<td>46.3 mm (1.82 in)</td>
</tr>
</tbody>
</table>

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

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)
---|---
128 mm (5.04 in) | 2.5 mm (0.10 in) (factory-recommended)

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

<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>128 mm (5.04 in)</td>
<td>51.3 mm (2.02 in)</td>
</tr>
<tr>
<td>118 mm (4.65 in)</td>
<td>Dimension A (Outer diameter of reel cutter (cutting cylinder))</td>
</tr>
<tr>
<td>46.3 mm (1.82 in)</td>
<td></td>
</tr>
</tbody>
</table>

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.

**Note:**

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

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

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

**Important**

Use 30204JRP6 as bearing.

1. Fill up the bearings and oil seals with grease (Excelite EP No. 2).
2. Install the reel cutter (cutting cylinder) onto the frame.
3. Tighten the nut until the length of the spring reaches 11.5 mm (0.453 in), and then lock it.
   
   **Note:**
   Preloading with a constant force by spring pressure is possible.
4. Measure the rotating torque of the reel cutter (cutting cylinder) with a torque wrench.
   
   The specified value is 0.8 to 1.0 N·m (8 to 10 kgf·cm).

**Specification without groomer:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reel gear</td>
</tr>
<tr>
<td>2</td>
<td>Reel gear fixing nut</td>
</tr>
<tr>
<td>3</td>
<td>Torque wrench</td>
</tr>
<tr>
<td>A</td>
<td>11.5 mm (0.453 in)</td>
</tr>
</tbody>
</table>

**Specification with groomer:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Washer</td>
</tr>
<tr>
<td>2</td>
<td>Left-hand nut</td>
</tr>
<tr>
<td>3</td>
<td>Torque wrench</td>
</tr>
<tr>
<td>A</td>
<td>11.5 mm (0.453 in)</td>
</tr>
</tbody>
</table>
**Replacement of Bed Knife (Bottom Blade)**

**Caution**

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

**Caution**

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

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

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

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

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

---

**Removing/Installing The Bed Knife Base**

**Removing The Bed Knife Base**

**Caution**

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

**Caution**

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

1. Loosen the lock nuts on both sides, and then loosen the cutter pins.
2. Remove the 2 bolts that secure the bed knife base arm Assy and bed knife base COMP.

![Diagram showing the bed knife base arm Assy and bed knife base COMP with the bolts highlighted.]

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

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

![Diagram showing the fulcrum seat bolt, S washer, and washer being removed.]

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

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

![Diagram showing the cutter pins and lock nuts being removed.]

5. Remove the bed knife base COMP.

![Diagram showing the bed knife base COMP being removed.]

**Maintenance**
LM56GC • LM66GC / LM66TC

**Maintenance Work**
Page 5-15
Installing The Bed Knife Base

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

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

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

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

1. Temporarily install the bed knife base COMP onto the machine with the left and right cutter pins and lock nuts. Note: At this time, tighten the lock nuts to the heads of the cutter pins, but do not allow the lock nuts to contact the cam bushes.

2. Insert the bed knife base arm Assy into the bed knife base COMP.

3. Temporarily install the bed knife base arm with the bolt of the fulcrum seat.

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

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

Important
Do not tighten the left and right lock nuts.
6. Remove the fulcrum seat bolt used to temporarily install the bed knife base arm. 
Note: With the weight of the bed knife base arm, the bed knife (bottom blade) will slightly come into contact with the reel cutter (cutting cylinder).

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

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

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

10. Adjust the positions of the cam bushes so that both sides cut. 
"Adjusting CAM" (Page 5-8) 
Note: After making adjustments, use a marker, etc., to place a mark on the frame at the position of the punch mark.
If one to five gap adjustment washers had been inserted between the fulcrum seat and the frame, insert gap adjustment washers so that the gap is eliminated.

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

12. Align the vertical hole in the fulcrum seat, and then secure it.
   OK: The cutter adjustment bolt is centered in the hole of the fulcrum seat.
   NG: The cutter adjustment bolt is not centered in the hole of the fulcrum seat.

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

Make sure that the cam bush does not move from the marked position.
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
Both the reel cutter (cutting cylinder) and the bed knife (bottom blade) are edged tools. Handle them carefully, since they could cut your hands and feet.

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

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

Important
Replace the old screws with new ones.

1. Tighten the screws uniformly with a hammer driver.

Note:
When installing the bed knife, first tighten the center screw, and then tighten from center outwards, alternating between left and right sides.
Removing/Installing The Small Cover (Left)

Removing The Small Cover (Left)

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

Installing The Small Cover (Left)

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

Important

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

2. Install the gear retainer collar to the reel cutter shaft while adjusting the position of the small cover (left).

3. Tighten the 4 bolts which have temporarily been attached to the small cover (left).
4. Insert an item such as a wooden hammer handle into the reel cutter to prevent it from turning, and install the disk spring and the lapping bolt.

2. Make sure that the brake shoe does not touch the brake drum.
   Avoid the brake always being engaged.
   Note: The brake shoe may touch the brake drum if you hear a rubbing sound or the drum feels heavy when rotating the drum.

Adjustment of Engine Clutch Section

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

Adjustment of Brake

**Caution**
If the brake wire is cut, the machine will be unable to stop.
If the brake wire is cracked or damaged, replace it with a new one immediately.

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

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

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

1. Loosen the four bolts A securing the engine.
   Be sure not to loosen the bolts B.
2. Insert a thickness gauge (accessory tool) between the engine clutch and the clutch facing.
Make adjustment of the engine position so that the front and rear clearances will be the same distance, and then tighten the bolts A.

Adjustment of Engine Clutch

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

Adjustment of Clutch Wire

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

1. Loosen the clutch wire adjusting nuts.
2. Adjust the operation distance of the clutch plate by changing the clutch wire position with the clutch wire adjusting nuts.
3. After appropriate adjustment of the operation distance of the clutch plate completed, tighten the clutch wire adjusting nuts.

Adjustment of Clutch Spring

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

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

 нескольKILOBYTE earnest

*** 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.

 нескольKILOBYTE earnest

*** 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).

 нескольKILOBYTE earnest

*** 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.
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

#### Scalloping

<table>
<thead>
<tr>
<th>Question</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the roller bracket secured?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Tightening to secure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of securing screws</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Have adjustments been made to obtain desired cutting height?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Adjustment of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the front roller rattle up and down?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of front roller bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of front roller shaft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the drum rattle up and down?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum shaft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum shaft bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the clippings discharged frequently?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Since the load of clippings in the grass catcher may sink the front roller, discharge the clippings frequently.</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Is there a proper balance between the bed knife (bottom blade) and cutting height?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(See &quot;Cutting Height and Thickness of Bed Knife (Bottom Blade)&quot;).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Change of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of bed knife (bottom blade)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do the greens have large undulations?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Increasing of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 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).</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Are the greens matted?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replace the front roller with a smooth one</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Rehabilitation of greens (vertical cutting, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do the greens have large undulations?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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).</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Are the greens sloped?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change of cutting direction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the greens matted?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Increasing of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replace the front roller with a smooth one</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Rehabilitation of greens (vertical cutting, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application of topdressing sand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the surface of the greens finished?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Increasing of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replace the front roller with a smooth one</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Angled Mismatch

<table>
<thead>
<tr>
<th>Question</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the cutting height on both sides adjusted to be the same?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjustment of cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the bed knife (bottom blade) chipped?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of bed knife (bottom blade)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the front roller rattle up and down?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of front roller bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of front roller shaft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the drum rattle up and down?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum shaft</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replacement of drum shaft bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the greens matted?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Replace the front roller with a smooth one</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Rehabilitation of greens (vertical cutting, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do the greens have large undulations?</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>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).</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Are the greens sloped?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change of cutting direction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the left frame and right frame distorted?</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Contact your sales representative or dealer.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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)
  - Loosening of blade engagement
  - After loosening blade engagement, streaks still appear
    - Is the spring pressure for the adjustment nut too light?
      - Yes
        - Adjustment of spring compression length
          (See “Adjustment of Cutter Adjustment Spring”.)
      - 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

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)”.)

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

- Yes
  - Correctly driving in the outer ring
  - Replacement of reel bearing

Do the cam bush and frame rattle?

- Yes
  - <Important>
    For replacing the frames, contact your sales representative or dealer.
    - Replacement of cam bush
    - Replacement of frame

Do the cam bush and cutter pin rattle considerably?

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

Loosening of blade engagement

NO

Has topdressing sand recently been applied?

YES

Work in sand

NO

Is the blade contact uneven?

YES

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

YES

Cylindrical grinding of reel cutter (cutting cylinder) shaft

NO

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.)

NO

Do the cam bush and frame rattle?

YES

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

• Replacement of cam bush

NO

Do the cam bush and cutter pin rattle considerably?

YES

• Replacement of cutter pin

NO

Is the reel bearing malfunctioning?

YES

<Important>

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

• Replacement of reel bearing

NO
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 5-8)
- Adjustment of spring pressure  
  "Adjustment of Cutter Adjustment Spring" (Page 5-8)
EU Declaration of Conformity

Product Identification

Product: Lawnmower
Make: BARONESS
Model: LM56
GC: 35031

Measured Sound Power Level:
LWA: 96.24 dB
LWA: 98 dB

Guaranteed Sound Power Level:
Manufacturer: Kyoelsha Co., Ltd.
Address: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., 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

Technical Documentation

Keeper’s Name: Kyoelsha Co., Ltd.
Keeper’s Address: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Compiler of the technical file (2006/42/EC)
Name: Kyoelsha U.K.Ltd.
Address: Unit 5 Hatch Industrial Park Grewell 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)
Internal control of production with assessment of technical documentation and periodical checking (2000/14/EC)

Involved Notified Body (2000/14/EC)
Name: SNCH
Address: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certificate / Technical Documentation No.: SNCHF2000/14*2005/88*/0302077/TCLM56-07

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

Signature:

Name: Kimiya Kanako
Position: Quality Dept. Manager

Declaración de conformité UE

Identification du produit

Produit: Tondeuse à gazon
Fabricant: BARONESS
Type: LM56
GC: 35031

Niveau de puissance acoustique mesuré:
LWA: 96.24 dB

Niveau de puissance acoustique garanti:
LWA: 98 dB

Fabricant Nom: Kyoelsha 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: Kyoelsha Co., Ltd.
Adresse de la marque: 1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon

Compilateur de la fiche technique (2006/42/CE)
Nom: Kyoelsha U.K. Ltd.
Adresse: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Royaume-Uni

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

Organisme notifié impliqué (2000/14/CE)
Nom: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
N° de certificat/Documentation technique: SNCHF2000/14*2005/88*/0302077/TCLM56-07

EU02 – 1
EU-Konformitätserklärung

Produktbeschreibung

Produkt: Rasenmäher
Marke: BARONESS
Modell: LM56
Version(en): GC
Startseriennummer: 35031
Gewicht der Schallleistungspiegel: LWA 96.24 dB
Garantierte Schallleistungspiegel: 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 Gerauschemission 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 Halters: Kyoeisha Co., Ltd.
Adresse des Halters: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Technische Unterlagen erstellt von: (2006/42/EG)
Name: Kyoeisha U.K. Ltd.
Adresse: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Großbritannien

Konformitätsbewertungsverfahren

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

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

Bescheinigung/Technische Dokumentation Nr.: SNCH*2000/14/2005/88°030°07/TCLM56-07
EU-försäkran om överensstämmelse

Produkttillstånd:
- Produkt: Gräsklippare
- Märke: BARONESS
- Typ: LM66
- Model: GC
- Serienummer: 35031
- Uppmätt ljudnivå: LWA = 96.24 dB
- Garanterad ljudnivå: 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 Batteriermission 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
- Den tekniska filen (2006/42/EG) har tagits fram av: Kyoeisha U.K Ltd.
- Adress: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Storbritannien

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

Anmält organ (2000/14/EG):
- Namn: SNCH
- Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
- CertifikatTeknisk dokumentation nummer: SNCH2000/14*2005/BB*0302*07/TCM56-07
EU Declaration of Conformity

Product Identification
- **Product:** Lawnmower
- **Make:** BARONESS
- **Type:** LM66
- **Version(s):** TC
- **Starting Serial No.:** 35001
- **Measured Sound Power Level:**
  - LWA: 95.42 dB
  - LWA: 98 dB
- **Guaranteed Sound Power Level:**
- **Manufacturer Name:** Kyoelsha Co., Ltd.
- **Address:** 1-26 Miyuki-cho, Toyokawa, Aichi-pref., 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

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

Technical Documentation
- **Keeper's Name:** Kyoelsha Co., Ltd.
- **Keeper's Address:** 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Compiler of the technical file
- **Name:** Kyoelsha 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)
- **Internal control of production with assessment of technical documentation and periodical checking** (2000/14/EC)

Involved Notified Body (2000/14/EC)
- **Name:** SNCH
- **Address:** 11, Route de Sandweiler 5230 Sandweiler Luxembourg

Certificate / Technical Documentation No.: SNCH**2000/14**2005/88*1258*04/TCLM66-04

Place: Japan
Date: 18 April 2018 (18 / 4 / 2018)
Signature: [Signature]
Name: Kimiya Kaneko
Position: Quality Dept. Manager

---

Déclaration de conformité UE

Identification du produit
- **Produit:** Tondeuse à gazon
- **Make:** BARONESS
- **Type:** LM66
- **Version(s):** TC
- **Numéro de série de début:** 35001
- **Niveau de puissance acoustique mesuré:**
  - LWA: 95.42 dB
  - LWA: 98 dB
- **Fabricant**: Kyoelsha 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 12100 : 2010** (2006/42/CE)
- **ISO 5395-1 : 2013** (2006/42/CE)
- **ISO 5395-2 : 2013** (2006/42/CE)

Fiche technique
- **Marque:** Kyoelsha Co., Ltd.
- **Adresse de la marque:** 1-26, Miyuki-cho, Toyokawa, préfecture d’Aichi, Japon

Compilateur de la fiche technique (2006/42/CE)
- **Nom:** Kyoelsha U.K. Ltd.
- **Adresse:** Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Royaume-Uni

Conformité avec les directives (2000/14/CE)
- **Nom:** SNCH
- **Adresse:** 11, Route de Sandweiler 5230 Sandweiler, Luxembourg

Organisme notifié impliqué (2000/14/CE)

Number of certificate/documentation technique: SNCH**2000/14**2005/88*1258*04/TCLM66-04

---

[Signature]
Name: [Signature]
Position: [Signature]
Declaración de conformidad de la UE

Identificación del producto
Producto: Cortacésped
Marca: BARONESS
Tipo: LM66
Versión: TC
N.º de serie inicial: 35001
Nivel de potencia sonora medido: LWA 95.42 dB
Nivel de potencia sonora garantizado: LWA 98 dB
Fabricante: Kyeoisha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas
2006/42/CE Maquinaria (MID)
2014/30/UE Especificaciones sobre la 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: Kyeoisha Co., Ltd.
Dirección del responsable: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón
Compilador del archivo técnico: Kyeoisha U.K. Ltd.
Dirección: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido

Procedimientos de evaluación de conformidad
Control de fabricación interno: Módulo A (2006/42/CE)
Examen de tipo CE: Módulo B (2014/30/UE)
Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)

Organismo notificado implicado: SNCH
Nombre: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo
Certificado/Documentación técnica n.º: SNCH 2000/14/2005/88/1256/04/TCLM66-04

EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONESS
Modell: LM66
Version(en): TC
Startseriennummer: 35001
Gemessener Schalldruckpegel: LWA 95.42 dB
Garantieter Schalldruckpegel: LWA 98 dB
Hersteller: Kyeoisha 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 Geräuschrichtlinie 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: Kyeoisha Co., Ltd.
Adresse des Halter: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Technische Unterlagen erstellt von (2006/42/EG)
Name: Kyeoisha U.K.Ltd.
Adresse: Unit 5 Hatch Industrial Park Greywell Road,Basingstoke Hampshire RG24 7NG, Großbritannien

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

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 Luxemburgo
Bescheinigung/Technische Dokumentation Nr. : SNCH 2000/14/2005/88/1256/04/TCLM66-04
# EU-försäkran om överensstämmelse

<table>
<thead>
<tr>
<th>Produktidentifikation</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Produkt:</td>
<td>Gräsklippare</td>
<td></td>
</tr>
<tr>
<td>Märke:</td>
<td>BARONESS</td>
<td></td>
</tr>
<tr>
<td>Typ:</td>
<td>LM66</td>
<td></td>
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<tr>
<td>Version(er):</td>
<td>TC</td>
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<td>Serienummer startar på:</td>
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<tr>
<td>Uppmätt ljudefektnivå:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LWA</td>
<td>95.42 dB</td>
<td></td>
</tr>
<tr>
<td>LWA</td>
<td>98 dB</td>
<td></td>
</tr>
<tr>
<td>Tillverkare</td>
<td>Kyoelsha Co., Ltd.</td>
<td></td>
</tr>
<tr>
<td>Adress:</td>
<td>1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan</td>
<td></td>
</tr>
</tbody>
</table>

Upptäcker följande direktiv
2006/42/EG Maskindirektivet
2014/30/EU Elektromagnetisk kompatibilitet (EMC)
2000/14/EG Blytsäkerhet och ratt på omhändertagning

Följande kravspecifikationer har följt vid konstruktion och tillverkning
ISO 12100 : 2010 (2006/42/EG)
ISO 5395-1 : 2013 (2006/42/EG)

Teknisk dokumentation

Innehavarens namn: Kyoelsha Co., Ltd.
Adress: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

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

Namn: Kyoelsha U.K.Ltd.
Adress: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Storbritannien

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

Namn (2000/14/EG): SNCH
Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certifikat/Teknisk dokumentation nummer: SNCH 2000/14*2005/88*1258*04/T/CLM66-04