Serial No.  LM56GC : 35521-  •  LM66GC : 35535-  
                   LM66TC : 35073-

"Required reading"
Read this manual 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 a Baroness dealer or Kyoeisha. When making inquiries about the product, please specify the product’s model designation and serial number. When loaning or transferring the product, please also provide this manual together with the product.

Kyoeisha Co., Ltd.

Warning Symbols

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

<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>

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

About Recycle

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

About Waste Disposal

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

### Specifications List

**LM56GC**

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<tr>
<th>Model</th>
<th>LM56GC</th>
</tr>
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<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total length</td>
<td>55.51 in</td>
</tr>
<tr>
<td>with grass catcher</td>
<td></td>
</tr>
<tr>
<td>Total width</td>
<td>37.01 in</td>
</tr>
<tr>
<td>without travelling wheel</td>
<td></td>
</tr>
<tr>
<td>Total height</td>
<td>45.67 in</td>
</tr>
<tr>
<td>Steering handle</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>224.87 lb</td>
</tr>
<tr>
<td>Grass catcher †</td>
<td>7.28 lb</td>
</tr>
<tr>
<td>Groomer †</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Travelling wheel (for one machine) †</td>
<td>15.21 lb</td>
</tr>
<tr>
<td><strong>Minimum turning radius</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>HONDA GX120</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
</tr>
<tr>
<td>Total displacement</td>
<td>7.20 cu.in.</td>
</tr>
<tr>
<td>Maximum output</td>
<td>2.6 kW (3.5 PS)/3,600 rpm</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>Gasoline 0.53 U.S.gal</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS · h (rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gal</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</td>
</tr>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.118 (0.177) - 1.142 in</td>
</tr>
<tr>
<td>Blades</td>
<td>11</td>
</tr>
<tr>
<td>Drive</td>
<td>Traveling Mechanical</td>
</tr>
<tr>
<td>Mowing</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Speed (HST)</td>
<td>-</td>
</tr>
<tr>
<td>Speed (Mechanical)</td>
<td>2.92 mph (@3,000 rpm)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>0.51 acres/hour (2.92 mph x mowing width x 0.8)</td>
</tr>
<tr>
<td>Maximum inclination for operation</td>
<td>-</td>
</tr>
<tr>
<td>Tire size</td>
<td>4.10/3.50-6</td>
</tr>
<tr>
<td>Tire pneumatic pressure</td>
<td>17.40 psi</td>
</tr>
<tr>
<td>Battery</td>
<td>-</td>
</tr>
<tr>
<td>Engine plug</td>
<td>NGK BPR4ES</td>
</tr>
<tr>
<td>Front groomer</td>
<td>Working width 20.08 in</td>
</tr>
<tr>
<td>Number of Blades</td>
<td>78</td>
</tr>
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### Specifications

<table>
<thead>
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<th>Dethatching Reel</th>
<th>Working width</th>
<th>19.84 in</th>
<th>50.4 cm</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Number of Blades</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Rotary Brush</td>
<td>Working width</td>
<td>19.29 in</td>
<td>49.0 cm</td>
</tr>
<tr>
<td></td>
<td>Turning Diameter</td>
<td>2.36 in</td>
<td>6.0 cm</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>Model</th>
<th>LM66GC</th>
</tr>
</thead>
</table>

### Dimensions

| Total length with grass catcher | 55.51 in | 141 cm |
| Total width without travelling wheel | 40.55 in | 103 cm |
| Total height Steering handle | 45.67 in | 116 cm |

### Weight

| Total weight (empty fuel tank) | 240.30 lb | 109 kg |
| Grass catcher *1 | 7.94 lb | 3.6 kg |
| Groomer *1 | 8.82 lb | 4.0 kg |
| Travelling wheel (for one machine) *1 | 15.21 lb | 6.9 kg |

### Engine

| Model | HONDA GX120 |
| Type | Gasoline air-cooled engine (OHV) four-stroke single-cylinder |
| Total displacement | 7.20 cu.in. | 118 cm³ (0.118 L) |
| Maximum output | 2.6 kW (3.5 PS)/3,600 rpm |

| Fuel tank capacity | Gasoline 0.53 U.S.gals | Gasoline 2.0 dm³ (2.0 L) |
| Fuel consumption | 237.57 g/PS • h (rated output) | 323 g/kW • h (rated output) |
| 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) | 0.118 (0.177) - 1.142 in | 3.0 (4.5) - 29.0 mm |
| Blades | 11 |

| Drive | Traveling Mechanical |
| Mowing Mechanical |

| Speed (HST) | - |
| Speed (Mechanical) | 2.92 mph (@3,000 rpm) | 4.7 km/h (@3,000 rpm) |
| Efficiency | 0.60 acres/hour (2.92 mph x mowing width x 0.8) | 2,429 m²/h (4.7 km/h x mowing width x 0.8) |

| 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 |

| Front groomer | Working width 23.74 in | 60.3 cm |
| Number of Blades | 92 |

| Dethatching Reel | Working width 23.46 in | 59.6 cm |
| Number of Blades | 46 |

| Rotary Brush | Working width 22.63 in | 57.5 cm |
| Turning Diameter | 2.36 in | 6.0 cm |
The factory default maximum engine rpm is 3,400 rpm.

1: Total weight includes 1 parts.

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

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

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

<table>
<thead>
<tr>
<th>Specifications</th>
<th>LM66TC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<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>45.67 in</td>
</tr>
<tr>
<td>Steering handle</td>
<td>116 cm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>235.89 lb</td>
</tr>
<tr>
<td>Grass catcher &quot;1&quot;</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Groomer &quot;1&quot;</td>
<td>8.82 lb</td>
</tr>
<tr>
<td>Travelling wheel (for one machine) &quot;1&quot;</td>
<td>15.21 lb</td>
</tr>
<tr>
<td></td>
<td>6.9 kg</td>
</tr>
<tr>
<td><strong>Minimum turning radius</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>HONDA GX120</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
</tr>
<tr>
<td>Total displacement</td>
<td>7.20 cu.in.</td>
</tr>
<tr>
<td></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>
<tr>
<td><strong>Fuel tank capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Gasoline</td>
<td>0.53 U.S.gals</td>
</tr>
<tr>
<td></td>
<td>2.0 dm³ (2.0 L)</td>
</tr>
<tr>
<td><strong>Fuel consumption</strong></td>
<td></td>
</tr>
<tr>
<td>Gasoline</td>
<td>237.57 g/PS · h (rated output)</td>
</tr>
<tr>
<td></td>
<td>323 g/kW · h (rated output)</td>
</tr>
<tr>
<td><strong>Engine oil capacity</strong></td>
<td></td>
</tr>
<tr>
<td>Gasoline</td>
<td>0.15 U.S.gals</td>
</tr>
<tr>
<td></td>
<td>0.56 dm³ (0.56 L)</td>
</tr>
<tr>
<td><strong>Coolant volume</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Hydraulic tank capacity</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Operating width (Mowing width)</strong></td>
<td>26 in</td>
</tr>
<tr>
<td></td>
<td>64.6 cm</td>
</tr>
<tr>
<td><strong>Operating height (Mowing height)</strong></td>
<td>0.177 (0.276) - 1.142 in</td>
</tr>
<tr>
<td>[0.177 (0.276) - 1.063 in] &quot;2&quot;</td>
<td>4.5 (7.0) - 29.0 mm</td>
</tr>
<tr>
<td>[4.5 (7.0) - 27.0 mm] &quot;2&quot;</td>
<td></td>
</tr>
<tr>
<td><strong>Blades</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td></td>
</tr>
<tr>
<td>Traveling</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Mowing</td>
<td>Mechanical</td>
</tr>
<tr>
<td><strong>Speed (HST)</strong></td>
<td></td>
</tr>
<tr>
<td>2.67 mph (@3,000 rpm)</td>
<td>4.3 km/h (@3,000 rpm)</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td></td>
</tr>
<tr>
<td>0.55 acres/hour</td>
<td>2,222 m²/h</td>
</tr>
<tr>
<td>(2.67 mph x mowing width x 0.8)</td>
<td>(4.3 km/h x mowing width x 0.8)</td>
</tr>
<tr>
<td><strong>Maximum inclination for operation</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Tire size</strong></td>
<td>4.10/3.50-6</td>
</tr>
<tr>
<td><strong>Tire pneumatic pressure</strong></td>
<td>17.40 psi</td>
</tr>
<tr>
<td></td>
<td>120 kPa (1.2 kgf/cm²)</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></td>
</tr>
<tr>
<td>Working width</td>
<td>23.74 in</td>
</tr>
<tr>
<td>Number of Blades</td>
<td>92</td>
</tr>
<tr>
<td><strong>Dethatching Reel</strong></td>
<td></td>
</tr>
<tr>
<td>Working width</td>
<td>23.46 in</td>
</tr>
<tr>
<td>Number of Blades</td>
<td>46</td>
</tr>
<tr>
<td><strong>Rotary Brush</strong></td>
<td></td>
</tr>
<tr>
<td>Working width</td>
<td>22.63 in</td>
</tr>
<tr>
<td>Turning Diameter</td>
<td>2.36 in</td>
</tr>
</tbody>
</table>

*1 Grass catcher
*2 Operating height

---

**Page 3-6** Specifications
The factory default maximum engine rpm is 3,400 rpm.

*1: Total weight includes *1 parts.

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

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

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

**Sound Pressure Level**

**LM56**

- **Sound Pressure Level**

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

**LM66**

- **Sound Pressure Level**

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

**Sound Power Level**

**LM56**

- **Sound Power Level**

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

**LM66**

- **Sound Power Level**

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

**Vibration Level**

**LM56**

- **Hand-Arm Vibration**

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

**LM66**

- **Hand-Arm Vibration**

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

**Carbon Dioxide (CO₂) Emissions Measurement**

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

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

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

1. Handle
2. Throttle lever
3. Engine switch
4. Main clutch lever
5. Clutch lock lever
6. Brake lever
7. Engine
8. Engine clutch cover
9. Reel cutter
10. Bed knife
11. Front roller
12. Groomer
13. Groomer clutch lever
14. Drum
15. 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.

Noise Emission Decal

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

Year of Manufacture Decal

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

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

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 hands and feet away from moving parts.

**Caution to Mutilation Decal**

K4205001600
DECAL, CAUTION TO MUTILATION

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

**Caution to Noise Decal**

K4205001330
DECAL, CAUTION TO NOISE
Engine Oil Warning Decal

K4205001300
DECAL, WARNING ENGINE OIL

Important
Check engine oil and gearbox levels before starting.

Greasing Each 10-Hours Decal

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

Installing The Handle

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

Installing The 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.

Connection of Engine Switch Cord

**Important**

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

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

1. The plug is connected to the plug connected to the engine.
2. The crimp terminal is secured to the engine crankcase with a hexagon bolt.
4. Tighten the bolt, washer, and nut at the left side of the stand that were temporarily secured.

![Diagram of stand components](image)

**Confirmation of The Operation**

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

**Inspections**

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

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

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

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

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

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

  - **1.** Check to see whether or not the edge of the reel cutter (cutting cylinder) and the bed knife (bottom blade) are too blunt to cut.

  - **2.** Make sure that the reel cutter (cutting cylinder) and the bed knife (bottom blade) are not cracked.

  - **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.

**Cover**

**Inspection of Covers**

- **Warning**
  - If you have removed the covers during inspection, be sure to securely install them in their original positions.
  - If a cover remains removed, the operator may come into contact with rotating parts or belts and foreign objects may fly off, possibly resulting in injuries.

  - **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.

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.

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.
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>4.10/3.50-6</td>
<td>120 kPa (1.2 kgf/cm²)</td>
</tr>
</tbody>
</table>

Brake

Inspection of Brake

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

Wire

Inspection of Wire

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

Around The Engine

Inspection of Engine-Associated Parts

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

Engine Oil

Inspection of Engine Oil

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.
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.
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).

Fuel Strainer

Inspection of Fuel Strainer

The fuel strainer is located in the piping for fuel supply system and removes contamination.
1. Make sure that there is no fuel leakage.

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

Cleaning of Fuel Strainer

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

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

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

Important
During installation, prevent contamination with dirt or dust.
If the fuel is contaminated with dirt, dust, etc., the fuel flow will become insufficient.

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

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

Grass Catcher
Inspection of Grass Catcher

The grass catcher may no longer correctly collect grass clippings due to its wear, damage, deformation, etc., caused by frequent use.
1. Make sure that there is no wear or deterioration of the grass catcher.
2. Make sure that there is no damage to the grass catcher.
3. Make sure that there is no interference to moving parts due to deformation of the grass catcher.
Tightening Torques

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

Standard Tightening Torques

Bolts and Nuts

Important
A number of bolts are used in each part of this machine. Be sure to re-tighten the bolts and nuts, because they may be loosened at the earlier stage of the use.

As to the bolts and nuts without any special instruction, tighten them in appropriate tightening torque with proper tool.
Too much tightening may cause the looseness or damage of the screw.
The strength of tightening is determined by types of screws, strength, the friction of thread face or base face and others.
The table below is for the galvanized or parkerized bolts.
In case that the strength of internal thread is weak, it is not applied.
Do not use rusty or sand attached "screw."
Otherwise, it may cause insufficient tightening even if you apply the specified tightening torque.
The friction of the screw face becomes higher and the tightening torque is canceled out by the friction, therefore sufficient tightening cannot be applied.
If "screw" is wet by water or oil, do not tighten it with normal tightening torque.
If the screw is wet, the torque coefficient will get smaller and it may result in too much tightening.
Too much tightening may cause looseness by the screw stretched or result in damage.
Do not use a bolt experienced too much burden.
Using the impact wrench requires the skill.
Do exercise as much as possible for steady tightening.
<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>General bolt</th>
<th>Heat-treated bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strength classification 4.8</td>
<td>Strength classification 8.8</td>
</tr>
<tr>
<td></td>
<td><img src="image_url" alt="4T" /></td>
<td><img src="image_url" alt="8T" /></td>
</tr>
<tr>
<td></td>
<td><strong>M</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td></td>
<td><strong>M5</strong></td>
<td><strong>M6</strong></td>
</tr>
<tr>
<td></td>
<td><img src="image_url" alt="M5" /></td>
<td><img src="image_url" alt="M6" /></td>
</tr>
<tr>
<td></td>
<td>3 - 5</td>
<td>7 - 9</td>
</tr>
<tr>
<td></td>
<td><img src="image_url" alt="M5" /></td>
<td><img src="image_url" alt="M6" /></td>
</tr>
<tr>
<td></td>
<td>30.59 - 50.99</td>
<td>71.38 - 91.77</td>
</tr>
<tr>
<td></td>
<td><img src="image_url" alt="M5" /></td>
<td><img src="image_url" alt="M6" /></td>
</tr>
<tr>
<td></td>
<td>26.55 - 44.26</td>
<td>61.96 - 79.66</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 (Groomer model)</td>
<td>LM56G--1204Z0</td>
<td>GEAR, 20-TEETH</td>
<td>36</td>
<td>367.09</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></td>
</tr>
<tr>
<td>Handle</td>
<td>K0010100252</td>
<td>BOLT, HT M10-25</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td>Groomer</td>
<td>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 Work

Adjustment of Handle

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

---

**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.

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

1. Remove the snap pin and washer and then remove the flat head pin.
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.

---

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

1. Traveling/Working selector lever
2. Reel ON
3. Travel ON
4. 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.

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>This applies the set cutting height that differs from the actual cutting height.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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>LM56G C</td>
<td>Standard blade</td>
<td>1.0/0.039</td>
<td>2.5/0.098</td>
<td>K25110000490</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>K25110000270</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>Offset 5 mm</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>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>Standard equipment</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>
</tbody>
</table>

| LM66G C  | Standard blade                 | 1.5/0.059                    | 3.0/0.118                              | K25110000310      | 1.5 Bed knife 65G                |                          |
|          |                                | 2.0/0.079                    | 3.5/0.138                              | K2511000300       | 2 Bed knife 65G                  |                          |
|          |                                | 2.5/0.098                    | 4.0/0.157                              | K2511000200       | 2.5 Bed knife 65G                |                          |
|          | High-speed-steel-tipped blade  | 3.0/0.118                    | 4.5/0.177                              | K2510000150       | 3 Bed knife 62.5-648.4           | Standard equipment       |
|          |                                | 5.0/0.197                    | 7.0/0.276                              | K2510000170       | 5 Bed knife 62.5-648.4           |                          |
| LM66T C  | High-speed-steel-tipped blade  | 3.0/0.118                    | 4.5/0.177                              | K2510000150       | 3 Bed knife 62.5-648.4           | Standard equipment       |
|          |                                | 5.0/0.197                    | 7.0/0.276                              | K2510000170       | 5 Bed knife 62.5-648.4           |                          |

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

1. Standard blade
2. High-speed-steel-tipped blade
A Thickness of blade
Adjustment of Front Roller

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

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.

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

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

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.

Adjustment before Work
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.

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**

**Caution**

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

**Caution**

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

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

2. Make sure that the brake is locked.

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.
1. Brake lever
2. Lock lever
A. Lock
B. Unlock

3. Don't grip the main clutch lever.

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

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

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

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

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

Procedure to Stop Engine

1. Don't grip the main clutch lever.

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

3. Make sure that the brake is locked.

4. Set the fuel cock to the "Close" position.
Operation Method

Cautions before Leaving The Machine

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

⚠️ Caution
Check that the engine has stopped.

⚠️ Caution
Make sure that the brake lever is locked.

Positions of Operation Decals

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Decal, engine switch</td>
</tr>
<tr>
<td>2</td>
<td>Decal, clutch</td>
</tr>
<tr>
<td>3</td>
<td>Decal, groomer indication</td>
</tr>
<tr>
<td>4</td>
<td>Decal, light switch</td>
</tr>
<tr>
<td>5</td>
<td>Sticker, alignment 10300</td>
</tr>
</tbody>
</table>

LM56GC • LM66GC / LM66TC Handling Instructions
Description of Operation Decals

Engine Switch Mark

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

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.

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.
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.

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

Throttle Lever

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

<table>
<thead>
<tr>
<th>1</th>
<th>Throttle lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>High speed</td>
</tr>
<tr>
<td>B</td>
<td>Low speed</td>
</tr>
</tbody>
</table>
Throttle Lever

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

Brake Lever

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

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

Clutch Lock Lever

The clutch lock lever is located in the handle.

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

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

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

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

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

**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”.

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.

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.
IGCA (Independent Grass Catcher Arm)

Note:
Depending on the specifications, this function may not be available.
(IGCA can be installed onto the LM18GC/LM56GC.)
IGCA is located above the mower.
The IGCA is a mechanism that prevents the mowing attitude of the mower from changing, even when there is an increase in the volume of clippings entering the grass catcher.
It eliminates as much as possible the transfer of rough handle movements causing changes in the mower's attitude.
Since the mower is stabilized while the lawn is mowed, even if the handle is treated roughly, the cutting height does not change from the start of mowing the green to the end.
Stable lawn mowing work can be performed regardless of the operator's skill level and machine proficiency level, enabling all greens to be mowed at a uniform cutting height.

Issue 1:
The cutting height fluctuates due to the up-and-down movements of the mower caused by the weight of the grass catcher.
Solution:
The mower and grass catcher operate independently.
Therefore, the mowing attitude of the mower is not affected, even when the grass catcher becomes heavier from the added weight of grass, thatch, sand, etc.
The operator can mow at a uniform cutting height from the start of mowing the green to the end.

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.

Handling Instructions
LM56GC • LM66GC / LM66TC

Operation Method
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.

Instruments

Hour Meter

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

Traveling Procedure

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

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

1. Install traveling tires.
2. Flip up the stand.
3. Set the 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: 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.

**Installation of traveling tires:**
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.

---

**Transporting**

**Transporting Procedure**

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>When loading and unloading the machine, wear non-slip shoes and travel slowly.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>When securing the machine with a rope, do not tie the rope to the engine.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>When securing the machine with a rope, be careful not to bend any wires.</td>
</tr>
</tbody>
</table>

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

**Storage**

**Before Long-Term Storage**

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

---

**Removing/Installing Grass Catcher**

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop the engine before removing / installing the grass catcher.</td>
</tr>
</tbody>
</table>

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

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

---

**Removing/Installing Traveling Tires**

For installing the traveling tires, reverse the removing procedure.

<table>
<thead>
<tr>
<th>Removing/Installing Traveling Tires_005</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Traveling tires</td>
</tr>
</tbody>
</table>

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**Removing/Installing Grass Catcher_001**

<table>
<thead>
<tr>
<th>Removing/Installing Grass Catcher_001</th>
</tr>
</thead>
</table>
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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

**LM18GC/LM56GC/LM66GC/LM66TC**

Follow the maintenance schedule below.
- ○ ● △ Inspect, adjust, supply, clean
- ● ○ △ Replace (first time)
- △ ● ○ Replace

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Before Work</th>
<th>After Work</th>
<th>Every 10 hrs.</th>
<th>Every 20 hrs.</th>
<th>Every 25 hrs.</th>
<th>Every 50 hrs.</th>
<th>Every 100 hrs.</th>
<th>Every 300 hrs.</th>
<th>Every 500 hrs.</th>
<th>Every year</th>
<th>Every 2 years</th>
<th>When Required</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2 Check tightening bolts and nuts</td>
<td>○</td>
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<td>*2 Check fuel level</td>
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<td>Check fuel and oil leaks</td>
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<td>*2 Check engine oil level</td>
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<td>*2 Check air cleaner</td>
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<tr>
<td>Clean engine and circumference of the muffler cover</td>
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<td>*2 Change engine oil</td>
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<td>20 hours first change</td>
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<tr>
<td>*2 Check spark plug</td>
<td>○</td>
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<tr>
<td>*2 Clean spark arrester</td>
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<td>*2 Clean sediment cup</td>
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<tr>
<td>*1 Clean fuel tank &amp; filter</td>
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<td>*1 Check idling speed</td>
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<td>Check every 300 hours or every year whichever comes earlier</td>
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<tr>
<td>*1 Check valve clearance</td>
<td>○</td>
<td>○</td>
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<td>Check every 300 hours or every year whichever comes earlier</td>
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<tr>
<td>*2 Replace air cleaner</td>
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<tr>
<td>*2 Replace spark plug</td>
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<td>*1 Check fuel hoses and clamp bands</td>
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<td>Maintenance Item</td>
<td>Before Work</td>
<td>After Work</td>
<td>Every 10 hrs.</td>
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<td>Every 50 hrs.</td>
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<td>Every 300 hrs.</td>
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<td>Every 2 years</td>
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<td>Remarks</td>
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<td>Clean driving section</td>
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<td>Grease and Lubricate all moving parts</td>
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<td>Check electrical wiring condition (Damage, defacement and joint looseness)</td>
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<tr>
<td>Check blade condition (Reel cutter and Bedknife)</td>
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<td>Check groomer condition</td>
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<td>Adjust groomer</td>
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<td>Check tightening bolts and nuts</td>
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<td>Clean cutting section</td>
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<tr>
<td>Replace bearings inside gearcase</td>
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<tr>
<td>Replace front roller bearings</td>
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</tbody>
</table>

Maintenance schedules differ according to greasing points.

Maintenance schedules differ according to greasing points.
## Maintenance Schedule

### Maintenance Item

<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>
<th>When Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace front roller oil seals</td>
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<tr>
<td>Replace grease inside gearcase</td>
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<tr>
<td>Clean and Grease Bedknife</td>
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<tr>
<td>Eccentric Bushes</td>
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<tr>
<td>Adjust cutter adjustment spring</td>
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<td>Backlap blades</td>
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<tr>
<td>Regrind blades (Reel cutter )</td>
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<td></td>
<td>○</td>
<td>Grind/Replace blades as and when required</td>
</tr>
</tbody>
</table>

- *1: Consult your local Baroness Dealer for this service.
- The values for consumables are not guaranteed.

### Adjusted Values

<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter adjustment spring</td>
<td>50.0 mm (1.97 in)</td>
<td>Length of coil spring</td>
</tr>
<tr>
<td>Reel cutter shaft bearing preload spring</td>
<td>11.5 mm (0.453 in)</td>
<td>Total length of spring</td>
</tr>
<tr>
<td>Reel cutter rotation torque</td>
<td>0.8 - 1.0 N \cdot m (8 - 10 kgf \cdot cm)</td>
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</tr>
<tr>
<td>Engine clutch</td>
<td>0.5 - 1.0 mm (0.020 - 0.039 in)</td>
<td>Gap between engine clutch and clutch facing</td>
</tr>
<tr>
<td>Operation distance of clutch plate</td>
<td>1.0 - 2.0 mm (0.039 - 0.079 in)</td>
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</tr>
<tr>
<td>Engine clutch spring</td>
<td>61.0 mm (2.40 in)</td>
<td>Total length of spring</td>
</tr>
</tbody>
</table>
Greasing

About Greasing

Since there may be adhesion or damage due to lack of grease on moving parts, they must be greased.
Add urea-based No. 2 grease in accordance with the Maintenance Schedule.
Other locations where the specified grease or lubricant is used are indicated in "Greasing Points".
Add grease using the specified grease or lubricant.

Greasing Points

Grease nipples are installed in the following locations.

<table>
<thead>
<tr>
<th>Location</th>
<th>No. of greasing points</th>
<th>Greasing period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 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>
<tr>
<td>7 Handle</td>
<td>1</td>
<td>- 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.
### Lubrication

#### About Lubrication

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

#### Lubricating Points

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

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

### 1. Clutch lock lever fulcrum

![Clutch lock lever fulcrum](Lubricating Points_002)

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

### 2. Throttle lever fulcrum

![Throttle lever fulcrum](Lubricating Points_003)
Adjustment of Cutter Adjustment Spring

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

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

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

Caution

Do not perform back lapping with any other persons.

Warning

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

Caution

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

Important

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

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

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

Sharpen the reel cutter (cutting cylinder) when the sharpness cannot be restored, even after back lapping, or when the relief (second edge face) has worn away, there is full contact or back lapping takes too much time. In addition, if the reel cutter (cutting cylinder) becomes worn and its shape conical, perform cylindrical grinding to return it to a cylindrical shape.

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

**Caution**

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

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

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

<table>
<thead>
<tr>
<th>Dimension A (Outer diameter of reel cutter (cutting cylinder))</th>
<th>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)</th>
<th>Dimension A (Outer diameter of reel cutter (cutting cylinder))</th>
<th>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>128 mm (5.04 in)</td>
<td>51.3 mm (2.02 in)</td>
<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).
2. Sharpening is necessary when the reel cutter (cutting cylinder) reaches a condition described below.

[1] When the sharpening width (length of contacting surface of bed knife (bottom blade)) for the outer diameter of the reel cutter (cutting cylinder) is greater than the usage limit.

<table>
<thead>
<tr>
<th>Outer diameter of reel cutter (cutting cylinder) (new part)</th>
<th>Usage limit of sharpening width for outer diameter of reel cutter (cutting cylinder)</th>
</tr>
</thead>
<tbody>
<tr>
<td>128 mm (5.04 in)</td>
<td>2.5 mm (0.10 in) (factory-recommended)</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

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

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

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

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

<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>
</tbody>
</table>
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:**

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

**Specification with groomer:**

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

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

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

5. Remove the bed knife base COMP.
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 5-9)
Note:
After making adjustments, use a marker, etc., to place a mark on the frame at the position of the punch mark.

---

**Table:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Punch mark</td>
</tr>
<tr>
<td>1</td>
<td>Reel cutter (Cutting cylinder)</td>
</tr>
<tr>
<td>1</td>
<td>Bed knife (bottom blade)</td>
</tr>
<tr>
<td>A</td>
<td>Gap</td>
</tr>
<tr>
<td>B</td>
<td>No gap</td>
</tr>
</tbody>
</table>
Important
If one to five gap adjustment washers had been inserted between the fulcrum seat and the frame, insert gap adjustment washers so that the gap is eliminated.

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

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.

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

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

![Removing The Bed Knife_001](mbl5j-001)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bed knife base</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Bed knife</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Screw</td>
<td></td>
</tr>
</tbody>
</table>

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.

![Installing The Bed Knife_001](4mijko-001)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bed knife base</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Bed knife</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Screw</td>
<td></td>
</tr>
</tbody>
</table>

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.
3. Make sure that the brake lever is locked when gripping the lock lever while gripping the brake lever.

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.

Adjustment of Engine Clutch

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

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.

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

Adjustment of Engine Clutch_002

| 1 | Engine    |
| 2 | Bolt A    |
| 3 | Bolt B    |

Adjustment of Clutch Wire

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

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

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

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

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.

<table>
<thead>
<tr>
<th>Adjustment of Clutch Spring_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Clutch spring</td>
</tr>
<tr>
<td>2. Spring adjustment nut</td>
</tr>
<tr>
<td>3. Lock nut</td>
</tr>
<tr>
<td>A 61.0 mm (2.40 in)</td>
</tr>
</tbody>
</table>

**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**

\[\text{Caution}\]

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

\[\text{Important}\]

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

\[\text{Important}\]

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).

\[\text{Important}\]

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

### Scalping

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

### Angled Mismatch

<table>
<thead>
<tr>
<th>Question</th>
<th>YES</th>
<th>NO</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the cutting height on both sides adjusted to be the same?</td>
<td></td>
<td></td>
<td>• Adjustment of cutting height</td>
</tr>
<tr>
<td>Is the bed knife (bottom blade) chipped?</td>
<td></td>
<td></td>
<td>• Replacement of bed knife (bottom blade)</td>
</tr>
<tr>
<td>Does the front roller rattle up and down?</td>
<td></td>
<td></td>
<td>• Replacement of front roller bearing</td>
</tr>
<tr>
<td>• Replacement of front roller shaft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does the drum rattle up and down?</td>
<td></td>
<td></td>
<td>• Replacement of drum bearing</td>
</tr>
<tr>
<td>• Replacement of drum shaft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are the greens matted?</td>
<td></td>
<td></td>
<td>• Replace the front roller with a smooth one</td>
</tr>
<tr>
<td>• Rehabilitation of greens (vertical cutting, etc.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do the greens have large undulations?</td>
<td></td>
<td></td>
<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>
</tr>
<tr>
<td>Are the greens sloped?</td>
<td></td>
<td></td>
<td>• Change of cutting direction</td>
</tr>
<tr>
<td>Are the left frame and right frame distorted?</td>
<td></td>
<td></td>
<td>• Contact your sales representative or dealer.</td>
</tr>
</tbody>
</table>

Contact your sales representative or dealer.
Overlap Marks

Has the bed knife (bottom blade) become curved?

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

Did the cam bush and cutter pin rattle considerably?

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

Is the spring pressure for the adjustment nut too light?

- Adjustment of spring compression length (See “Adjustment of Cutter Adjustment Spring”)

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

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

Does the reel cutter (cutting cylinder) move sideways?

- 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?

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

Are the cam bush and frame rattle?

- Replacement of cam bush
- Replacement of frame

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

- Replacement of reel bearing

Is the reel bearing malfunctioning?

- 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?

- NO Is the blade engagement tight?

- YES Loosening of blade engagement
- NO After loosening blade engagement, blades still do not cut.

Has topdressing sand been applied?

- NO Is the blade contact uneven?

- YES

Does the cam bush and frame rattle?

- YES

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

- NO

- Replacement of cam bush
- Replacement of cutter pin

Is the reel bearing malfunctioning?

- YES

<Important>
Profusely apply grease to the reel bearing before installing it. Replace the oil seal at the same time.
- Replacement of reel bearing (Replace every year.)

<Important>
For replacing the frames, contact your sales representative or dealer.
- Replacement of reel cutter (cutting cylinder)
- Replacement of frame

Is the spring pressure for the adjustment lever too light?

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

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

Adjustment of spring compression length (See "Adjustment of Cutter Adjustment Spring").

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

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

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

- YES Cylindrical grinding of reel cutter (cutting cylinder)
- NO

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

- YES

<Important>
For replacing the frames, contact your sales representative or dealer.
- Replacement of reel cutter (cutting cylinder)
- Replacement of frame

- 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>Asymmetrical wear of bed knife (bottom blade)</td>
<td>Surface grinding 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 5-9)
- Adjustment of spring pressure
  "Adjustment of Cutter Adjustment Spring" (Page 5-9)
EU Declaration of Conformity

Product Identification
- Product: Lawnmower
- Make: BARONNESS
- Type: L556
- Version(s): GC
- Starting Serial No.: 35031
- Measured Sound Power Level: LWA 96.24 dB
- Guaranteed Sound Power Level: LWA 98 dB
- Manufacturer Name: Kyoeisha Co., Ltd.
- Address: 1-26 Miyuki-cho, Toyokawa, Aichi-prefer., Japan

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

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

Technical Documentation
- Keeper's Name: Kyoeisha Co., Ltd.
- Keeper's Address: 1-26 Miyuki-cho, Toyokawa, Aichi-prefer., Japan
- Compiler of the technical file: Kyoeisha U.K.Ltd.
- Name: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, the United Kingdom
- Address:

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

Place: Japan
Date: 16 April 2018 (18 / 4 / 2018)
Signature:
Name: Kimiya Kanako
Position: Quality Dept. Manager

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Déclaration de conformité UE

Identification du produit
- Produit: Tondeuse à gazon
- Fabricant: BARONNESS
- Type: L556
- Version(s): GC
- Numéro de série de début: 35031
- Niveau de puissance acoustique mesuré: LWA 96.24 dB
- Niveau de puissance acoustique garanti: LWA 98 dB
- Fabricant Nom: Kyoeisha 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 14982 : 1996 (2014/30/UE)

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

Procedures d’évaluation de la conformité
- Contrôle de production interne: module A (2006/42/CE)
- Examen du module CE: mode 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°0302°07/TCLM56-07
Declaración de conformidad de la UE

Identificación del producto
Producto: Corfaçeped
Marca: BARONESS
Tipo: LM56
Versión: GC
N.º de serie inicial: 35031
Nivel de potencia sonora medido: LWA 96.24 dB
Nivel de potencia sonora garantizado: LWA 98 dB
Fabricante: Kyoelsha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas
2006/42/CE Maquinaria (MD)
2014/30/EU 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: Kyoelsha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Compilador del archivo técnico (2006/42/CE)
Nombre: Kyoelsha 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/EUE)
Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)

Organismo notificado implicado (2000/14/CE)
Nombre: SNCH
Dirección: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certificado/Documentación técnica n.°: SNCH*2000/14*2005/88°0302°07/TCLM56-07

EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marken: BARONESS
Modell: LM56
Version(en): GC
Startseriennummer: 35031
Gemessener Schalleistungspegel: LWA 96.24 dB
Garantierte Schalleistungspegel: LWA 98 dB
Hersteller: Kyoelsha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

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

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

Technische Dokumentation
Name des Halter: Kyoelsha Co., Ltd.
Adresse des Halters: 1-26 Miyuki-cho, Toyokawa, Aichi-preff., Japan

Technische Unterlagen erstellt von: Kyoelsha U.K. Ltd.
Adresse: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Großbritannien

Konformitätsbewertungsverfahren
Interne Produktionskontrolle: Modul A (2006/42/EG)
EU-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 Luxembourg
Bescheinigung/Technische Dokumentation Nr.: SNCH*2000/14*2005/88°0302°07/TCLM56-07
EU-försäkran om överensstämmelse

Produkttidentifikation
Produkt: Gräsklippare
Märke: BARONESS
Typ: LM66
Version(er): GC
Serienummer startar på: 35031
Uppmått ljudnivå: LWA 96,24 dB
Garanterad ljudnivå: LWA 98 dB
Tillverkare: Kyoelsha 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 Bulleremission från utomhusutrustning

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

Teknisk dokumentation
Innehavarens namn: Kyoelsha Co., Ltd.
Innehavarens 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

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

Anmält organ (2000/14/EG)
Namn: SNCH
Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certifikat/Teknisk dokumentation nummer: SNCH*2000/14*2005/BE*0302*07/TCMS6-07

EU02 – 3
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: Kyoeisha 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: Kyoeisha Co., Ltd.
- Keeper's Address: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan
- Address: Unit 5 Hatch Industrial Park Grewel 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

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Déclaration de conformité UE

Identification du produit
- **Produit:** Tondeuse à gazon
- **Fabriquant:** BARONESS
- **Type:** LM66
- **Version(s):** TC
- **Numéro de série de début:** 35001

Niveau de puissance acoustique mesuré:
- **LWA:** 95.42 dB
- **LWA:** 98 dB

Niveau de puissance acoustique garantit:
- **LWA:** 95.42 dB

Fabricant Nom Adresse:
- **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)

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

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

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

Organisme notifié impliqué (2000/14/CE):
- **Nom:** SNCH
- **Adresse:** 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
- **Nº de certificat/Documentation technique:** SNCH*2000/14*2005/88*1258*04/TCLM66-04
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 (MD)
2014/30/UE Compatibilidad electromagnética (EMC)
2000/14/UE 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.
Nombre: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido

Procedimientos de evaluación de conformidad
Control de fabricación interna: Módulo A (2006/42/CE)
Examen de tipo CE: Módulo B (2014/30/UE)
Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)
Organismo notificado implicado (2000/14/CE)
Nombre: SNCH
Dirección: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo
Certificado/Documentación técnica n.º.: SNCH*2000/14*2005/88*1258*04/TCLM66-04

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EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONESS
Modell: LM66
Version(en): TC
Startseriennummer: 35001
Gemessener Schalleistungspegel: LWA 95,42 dB
Garantieter Schalleistungspegel: 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 Luxemburg
Bescheinigung/Technische Dokumentation Nr. : SNCH*2000/14*2005/88*1258*04/TCLM66-04

EU02 – 2
EU-försäkran om överensstämmelse

Produktdentifiering
- Produkt: Gräsklippare
- Märke: BARONESS
- Typ: LM66
- Version(er): TC
- Serienummer startar på: 35001
- Uppmätta ljudnivå: LwA 95.42 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: Bärlärm av 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
  - Namn: Kyoeisha 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-typprovnings: Modul B (2014/30/EU)
- Intern kontroll av produktion med fastställande av teknisk dokumentation och periodiska kontroller (2000/14/EG)
- Anmälte organ (2000/14/EG)
- Namn: SNCH
- Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
- Certifikat/Teknisk dokumentation nummer: SNCH2000/14*2005/86*1258*04/TCLM66-04

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