Walk Behind Greens Mower
Walk Behind Tee Mower

Owner's Operating Manual

Serial No.  LM56GC: 35341-  •  LM66GC : 35351-
LM66TC: 35071-

"Required reading"
Read this manual and the Owner's Manual for the engine before using the machine.

Original Instructions Ver.2.0
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="696cq5-001" alt="Danger" /></td>
<td>Indicates that serious injury or death will occur if the warning is ignored.</td>
</tr>
<tr>
<td><img src="696cq5-001" alt="Warning" /></td>
<td>Indicates that serious injury or death may occur if the warning is ignored.</td>
</tr>
<tr>
<td><img src="696cq5-001" alt="Caution" /></td>
<td>Indicates that injury or damage to property may occur if the warning is ignored.</td>
</tr>
</tbody>
</table>

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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Failure to adequately follow these safety precautions may cause an accident resulting in injury or death.

**Danger**

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

**Safe Operating Practices**

**Training**

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

**Preparation**

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

**Warning**

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

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

1. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
2. Only operate in good light, keeping away from holes and hidden hazards.
3. Before attempting to start the engine, disengage all attachments, shift into neutral, and engage the parking brake.
4. Start the engine or switch on the motor carefully according to this manual and with feet well away from the blade(s).
5. Avoid operating the equipment in wet grass, where feasible.
6. Always be sure of your footing on slopes.
7. Walk, never run.
8. Remember there is no such thing as a safe slope.
   Travel on grass slopes requires particular care.
   To guard against overturning:
   [2] Do not stop or start suddenly when going up or downhill.
9. Use extra care while operating machine with a grass catcher or other attachments. They can affect the stability of the machine.
10. Never operate the machine with damaged guards, shields, or without safety protective devices in place.
    Be sure all interlocks are attached, adjusted and functioning properly.
11. Do not change the engine governor settings or overspeed the engine.
    Operating the engine at excessive speed may increase the hazard of personal injury.
12. Pay attention not to touch hot parts.
13. Do the following before leaving the operator's position.
    [1] Stop on level ground.
    [2] Disengage the cutting unit and traction drive;
    [3] Set the parking brake;

14. Stop the engine in the following conditions.
    [3] Before making height adjustment unless adjustment can be made from the operator's position.
    [5] Before checking, cleaning, or working the machine.
    [7] After striking a foreign object or if an abnormal vibration occurs.
        Inspect the machine for damage and make repairs before restarting and operating the equipment.
15. Keep hands and feet away from the cutting units and the rotating parts.
16. Never pick up or carry a lawnmower while the engine is running.
17. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
18. Never operate while people, especially children, or pets are nearby.
19. Slow down and use caution when making turns and crossing roads and sidewalks.
20. Stop the blades rotating before crossing surfaces other than grass.
21. Disengage drive to attachments when transporting or not in use.
22. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
23. Do not operate the machine under the influence of alcohol or drugs.
24. Take care when loading or unloading the machine into a trailer or a truck.
    Load or unload the machine in a flat and safe place.
    Before loading or unloading, set the parking brake on the truck or trailer, stop the engine, and chock the wheels.
When transporting the machine on a truck or a trailer, set the parking brake, stop the engine, and fasten the machine to the truck with a rope or other suitable restraining device that has sufficient strength. When using a running board, select one with sufficient strength, length, and width and that will not cause the machine to slip.

25. Close the fuel valve before transporting the machine.

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

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

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

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

Maintenance and Storage

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

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

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

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

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

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

7. Do not store fuel near flames.

8. Never allow untrained personnel to service machine.

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

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

11. Use jack stands to support components when required.

12. Carefully release pressure from components with stored energy.

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

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

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

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

15. Keep hands and feet away from moving parts.

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

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

   Replace all worn or damaged decals.

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

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

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

About Recycle

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

About 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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<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total length with grass catcher</td>
<td>55.51 in</td>
</tr>
<tr>
<td>Total width without travelling wheel</td>
<td>37.01 in</td>
</tr>
<tr>
<td>Total height Steering handle</td>
<td>45.67 in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>224.87 lb</td>
</tr>
<tr>
<td>Grass catcher *1</td>
<td>7.28 lb</td>
</tr>
<tr>
<td>Groomer *1</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Travelling wheel (for one machine) *1</td>
<td>15.21 lb</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>HONDA GX120</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
</tr>
<tr>
<td>Total displacement</td>
<td>7.20 cu.in.</td>
</tr>
<tr>
<td>Maximum output</td>
<td>2.6 kW (3.5 PS)/3,600 rpm</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>Gasoline 0.53 U.S.gals</td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS・h (rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gals</td>
</tr>
<tr>
<td>Coolant volume</td>
<td>-</td>
</tr>
<tr>
<td>Hydraulic tank capacity</td>
<td>-</td>
</tr>
<tr>
<td>Operating width (Mowing width)</td>
<td>22 in</td>
</tr>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.118 (0.177) - 1.142 in [0.118 (0.177) - 1.063 in] *2</td>
</tr>
<tr>
<td><strong>Blades</strong></td>
<td></td>
</tr>
<tr>
<td>Number</td>
<td>11</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td></td>
</tr>
<tr>
<td>Traveling</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Mowing</td>
<td>Mechanical</td>
</tr>
<tr>
<td><strong>Speed (HST)</strong></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>2.92 mph (@3,000 rpm)</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td></td>
</tr>
<tr>
<td>0.51 acres/hour</td>
<td></td>
</tr>
<tr>
<td>(2.92 mph x mowing width x 0.8)</td>
<td>2,094 m²/h (4.7 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><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>20.08 in</td>
</tr>
<tr>
<td>Number of Blades</td>
<td>78</td>
</tr>
</tbody>
</table>
The factory default maximum engine rpm is 3,400 rpm.

1: Total weight includes parts.

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

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

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

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

#### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>LM66GC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length</td>
<td>55.51 in</td>
</tr>
<tr>
<td>without travelling wheel</td>
<td>40.55 in</td>
</tr>
<tr>
<td>Steering handle</td>
<td>45.67 in</td>
</tr>
<tr>
<td>Total weight (empty fuel tank)</td>
<td>240.30 lb</td>
</tr>
<tr>
<td>Grass catcher</td>
<td>7.94 lb</td>
</tr>
<tr>
<td>Groomer</td>
<td>8.82 lb</td>
</tr>
<tr>
<td>Travelling wheel (for one machine)</td>
<td>15.21 lb</td>
</tr>
<tr>
<td>Weight</td>
<td>240.30 lb</td>
</tr>
<tr>
<td>with grass catcher</td>
<td>55.51 in</td>
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<tr>
<td>Steering handle</td>
<td>45.67 in</td>
</tr>
<tr>
<td>Total height</td>
<td>116 cm</td>
</tr>
<tr>
<td></td>
<td>141 cm</td>
</tr>
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#### Weight

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<tr>
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<td>Total height</td>
<td>116 cm</td>
</tr>
<tr>
<td></td>
<td>141 cm</td>
</tr>
</tbody>
</table>

#### Minimum turning radius

- None

#### Engine

<table>
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<tr>
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<tbody>
<tr>
<td>Model</td>
<td>HONDA GX120</td>
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<tr>
<td>Type</td>
<td>Gasoline air-cooled engine (OHV) four-stroke single-cylinder</td>
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<tr>
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<tr>
<td>Maximum output</td>
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#### Fuel Consumption

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<td>Fuel tank capacity</td>
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<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS · h</td>
</tr>
<tr>
<td></td>
<td>(rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gals</td>
</tr>
<tr>
<td>Coolant volume</td>
<td>-</td>
</tr>
<tr>
<td>Hydrualic tank capacity</td>
<td>-</td>
</tr>
<tr>
<td>Operating width (Mowing width)</td>
<td>26 in</td>
</tr>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.118 (0.177) - 1.142 in</td>
</tr>
<tr>
<td>Efficiency</td>
<td>0.60 acres/hour</td>
</tr>
<tr>
<td></td>
<td>(2.92 mph x mowing width x 0.8)</td>
</tr>
<tr>
<td></td>
<td>2.429 m²/h</td>
</tr>
<tr>
<td></td>
<td>(4.7 km/h 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>
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<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 23.74 in</td>
</tr>
<tr>
<td></td>
<td>Number of Blades 92</td>
</tr>
<tr>
<td>Dethatching Reel</td>
<td>Working width 23.46 in</td>
</tr>
<tr>
<td></td>
<td>Number of Blades 46</td>
</tr>
<tr>
<td>Rotary Brush</td>
<td>Working width 22.63 in</td>
</tr>
<tr>
<td></td>
<td>Turning Diameter 2.36 in</td>
</tr>
<tr>
<td></td>
<td>23.46 in</td>
</tr>
<tr>
<td></td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>22.63 in</td>
</tr>
<tr>
<td></td>
<td>6.0 cm</td>
</tr>
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The factory default maximum engine rpm is 3,400 rpm.

1: Total weight includes parts.

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

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

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## LM66TC

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<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length with grass catcher</td>
<td>55.51 in</td>
</tr>
<tr>
<td>Total width without travelling wheel</td>
<td>40.55 in</td>
</tr>
<tr>
<td>Total height Steering handle</td>
<td>45.67 in</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Fuel tank capacity</th>
<th>Gasoline 0.53 U.S.gals</th>
<th>Gasoline 2.0 dm³ (2.0 L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel consumption</td>
<td>237.57 g/PS・h (rated output)</td>
<td>323 g/kW・h (rated output)</td>
</tr>
<tr>
<td>Engine oil capacity</td>
<td>0.15 U.S.gals</td>
<td>0.56 dm³ (0.56 L)</td>
</tr>
<tr>
<td>Coolant volume</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Hydraulic tank capacity</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating width (Mowing width)</th>
<th>26 in</th>
<th>64.6 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating height (Mowing height)</td>
<td>0.177 (0.276) - 1.142 in</td>
<td>4.5 (7.0) - 29.0 mm</td>
</tr>
<tr>
<td></td>
<td>[0.177 (0.276) - 1.063 in]</td>
<td>[4.5 (7.0) - 27.0 mm]</td>
</tr>
</tbody>
</table>

| Blades | 7 |
|Drive |  |
| Traveling | Mechanical |
| Mowing | Mechanical |

<table>
<thead>
<tr>
<th>Speed (HST)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed (Mechanical)</td>
<td>2.67 mph (@3,000 rpm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Efficiency</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.55 acres/hour</td>
<td>(2.67 mph x mowing width x 0.8)</td>
</tr>
<tr>
<td>2,222 m²/h</td>
<td>(4.3 km/h x mowing width x 0.8)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum inclination for operation</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire size</td>
<td>4.10/3.50-6</td>
</tr>
<tr>
<td>Tire pneumatic pressure</td>
<td>17.40 psi</td>
</tr>
<tr>
<td>Battery</td>
<td>-</td>
</tr>
<tr>
<td>Engine plug</td>
<td>NGK BPR4ES</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Rotary Brush</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Working width</td>
<td>22.63 in</td>
</tr>
<tr>
<td>Turning Diameter</td>
<td>2.36 in</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.

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 directive 2000/14/EC.

LM66

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

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. Traveling/ Working selector lever
16. Grass catcher
17. Traveling 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

<table>
<thead>
<tr>
<th>Positions of Safety Decals and Instruction Decals_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Caution safety instruction decal</td>
</tr>
<tr>
<td>2. Caution to mutilation decal</td>
</tr>
<tr>
<td>3. Caution to noise decal</td>
</tr>
<tr>
<td>4. Warning engine oil decal</td>
</tr>
<tr>
<td>5. Greasing 10HR decal</td>
</tr>
</tbody>
</table>
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

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

Connection of Engine Switch Cord

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

- When assembling the handle, check the connection of the engine switch cord.
  - There are two connections - plug and crimp terminal.
  1. The plug is connected to the plug connected to the engine.
  2. The crimp terminal is secured to the engine crankcase with a hexagon bolt.

Installing The Stand

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

![Diagram of the stand being assembled](y7fthb-002)

**Step: 4 Step: 3**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stand</td>
<td>Bolt</td>
<td>Washer</td>
<td>Nut</td>
</tr>
</tbody>
</table>

**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)**

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.
4. Clean the urethane element with a solvent, such as a hardly flammable kerosene, and then soak it in the engine oil and wring out.
5. Remove dirt and dust from the paper element with blowing air or patting.
6. Assemble the paper and urethane elements.
7. Attach the air cleaner elements with the screw.
8. Set the cover, and then secure it firmly with the wing screw.

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

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

Inspection of Rollers

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

1. Make sure that there is no abrasion nor adhesion of the roller.
2. Make sure that there is no wear of the roller shaft.
3. Make sure that there is no wear nor damage of the oil seal.
4. Make sure that there is no wear nor rust of the bearing.
5. Make sure that there is no play in the roller shaft.

Drum

Inspection of Drum

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

Tire

Inspection of Tires

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

<table>
<thead>
<tr>
<th>Tire size</th>
<th>Pneumatic pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.

![Diagram of Oil Level Gauge and Drain Plug]

- 1 Oil level gauge (Oil filling port)
- 2 Drain plug
3. The appropriate engine oil level should be between the upper and lower limit lines on the gauge.

4. Screw the oil level gauge firmly.

Supply of Engine Oil

**Important**

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

**Important**

Do not mix different types of engine oil.

**Important**

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

**Important**

Screw the oil level gauge firmly.

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

**Fuel**

Inspection of Fuel Quantity

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

**Important**

Screw the oil level gauge firmly.

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).
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 Supply Diagram](diagram)

**Fuel Supply**

1. Fuel strainer
2. Filling opening
3. Maximum limit of fueling
A. 2.5 cm (0.98 in)

Oil Leakage

Inspection of Oil Leakage

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

Grass Catcher

Inspection of Grass Catcher

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

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

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

**Standard Tightening Torques**

**Bolts and Nuts**

Important

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

As to the bolts and nuts without any special instruction, tighten them in appropriate tightening torque with proper tool.

Too much tightening may cause the looseness or damage of the screw.

The strength of tightening is determined by types of screws, strength, the friction of thread face or base face and others.

The table below is for the galvanized or parkerized bolts. In case that the strength of internal thread is weak, it is not applied.

Do not use rusty or sand attached "screw."

Otherwise, it may cause insufficient tightening even if you apply the specified tightening torque.

The friction of the screw face becomes higher and the tightening torque is canceled out by the friction, therefore sufficient tightening cannot be applied.

If "screw" is wet by water or oil, do not tighten it with normal tightening torque.

If the screw is wet, the torque coefficient will get smaller and it may result in too much tightening.

Too much tightening may cause looseness by the screw stretched or result in damage.

Do not use a bolt experienced too much burden.

Using the impact wrench requires the skill.

Do exercise as much as possible for steady tightening.
## Tightening Torques

### General bolt

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>M 4 T</th>
<th>N-m</th>
<th>kgf-cm</th>
<th>lb-in</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>3 - 5</td>
<td>30.59</td>
<td>50.99</td>
<td>26.55 - 44.26</td>
</tr>
<tr>
<td>M6</td>
<td>7 - 9</td>
<td>71.38</td>
<td>91.77</td>
<td>61.96 - 79.66</td>
</tr>
<tr>
<td>M8</td>
<td>14 - 19</td>
<td>142.76</td>
<td>193.74</td>
<td>123.91 - 168.17</td>
</tr>
<tr>
<td>M10</td>
<td>29 - 38</td>
<td>295.71</td>
<td>387.49</td>
<td>256.68 - 336.34</td>
</tr>
<tr>
<td>M12</td>
<td>52 - 67</td>
<td>530.24</td>
<td>683.20</td>
<td>460.25 - 593.02</td>
</tr>
<tr>
<td>M14</td>
<td>70 - 94</td>
<td>713.79</td>
<td>958.52</td>
<td>619.57 - 831.99</td>
</tr>
<tr>
<td>M16</td>
<td>88 - 112</td>
<td>897.34</td>
<td>1142.06</td>
<td>778.89 - 991.31</td>
</tr>
<tr>
<td>M18</td>
<td>116 - 144</td>
<td>1,182.85</td>
<td>1,468.37</td>
<td>1,026.72 - 1,274.54</td>
</tr>
<tr>
<td>M20</td>
<td>147 - 183</td>
<td>1,498.96</td>
<td>1,866.05</td>
<td>1,301.10 - 1,619.73</td>
</tr>
<tr>
<td>M22</td>
<td>295</td>
<td>3,008.12</td>
<td></td>
<td>2,611.05</td>
</tr>
<tr>
<td>M24</td>
<td>370</td>
<td>3,772.89</td>
<td></td>
<td>3,274.87</td>
</tr>
<tr>
<td>M27</td>
<td>550</td>
<td>5,608.35</td>
<td></td>
<td>4,868.05</td>
</tr>
<tr>
<td>M30</td>
<td>740</td>
<td>7,545.78</td>
<td></td>
<td>6,549.74</td>
</tr>
</tbody>
</table>

### Heat-treated bolt

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>8 T</th>
<th>N-m</th>
<th>kgf-cm</th>
<th>lb-in</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>5 - 7</td>
<td>50.99</td>
<td>71.38</td>
<td>44.26 - 61.96</td>
</tr>
<tr>
<td>M6</td>
<td>8 - 11</td>
<td>81.58</td>
<td>112.17</td>
<td>70.81 - 97.36</td>
</tr>
<tr>
<td>M8</td>
<td>23 - 29</td>
<td>234.53</td>
<td>295.71</td>
<td>203.57 - 256.68</td>
</tr>
<tr>
<td>M10</td>
<td>45 - 57</td>
<td>458.87</td>
<td>581.23</td>
<td>398.30 - 504.51</td>
</tr>
<tr>
<td>M12</td>
<td>67 - 85</td>
<td>683.20</td>
<td>866.75</td>
<td>593.02 - 752.34</td>
</tr>
<tr>
<td>M14</td>
<td>106 - 134</td>
<td>1,080.88</td>
<td>1,366.40</td>
<td>938.21 - 1,186.03</td>
</tr>
<tr>
<td>M16</td>
<td>152 - 188</td>
<td>1,549.94</td>
<td>1,917.04</td>
<td>1,345.35 - 1,663.99</td>
</tr>
<tr>
<td>M18</td>
<td>200 - 240</td>
<td>2,039.40</td>
<td>2,447.28</td>
<td>1,770.20 - 2,124.24</td>
</tr>
<tr>
<td>M20</td>
<td>245 - 295</td>
<td>2,498.27</td>
<td>3,008.12</td>
<td>2,168.50 - 2,611.05</td>
</tr>
<tr>
<td>M22</td>
<td>-</td>
<td>530</td>
<td>852.24</td>
<td>469.03</td>
</tr>
<tr>
<td>M24</td>
<td>-</td>
<td>670</td>
<td>852.24</td>
<td>5,930.17</td>
</tr>
<tr>
<td>M27</td>
<td>-</td>
<td>1,000</td>
<td>1,340</td>
<td>8,851.00</td>
</tr>
<tr>
<td>M30</td>
<td>-</td>
<td>1,340</td>
<td>1,628.78</td>
<td>11,860.34</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>11 T</th>
<th>N-m</th>
<th>kgf-cm</th>
<th>lb-in</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td></td>
<td></td>
<td>51.96</td>
<td>61.96 - 88.51</td>
</tr>
<tr>
<td>M6</td>
<td></td>
<td></td>
<td>142.76</td>
<td>183.55</td>
</tr>
<tr>
<td>M8</td>
<td></td>
<td></td>
<td>285.62</td>
<td>372.78</td>
</tr>
<tr>
<td>M10</td>
<td></td>
<td>58 - 76</td>
<td>591.43 - 774.97</td>
<td></td>
</tr>
<tr>
<td>M12</td>
<td>104 - 134</td>
<td>1,060.49</td>
<td>1,366.40</td>
<td>920.50 - 1,186.03</td>
</tr>
<tr>
<td>M14</td>
<td>140 - 188</td>
<td>1,427.58</td>
<td>1,917.04</td>
<td>1,239.14 - 1,663.99</td>
</tr>
<tr>
<td>M16</td>
<td>210 - 260</td>
<td>2,141.37</td>
<td>2,651.22</td>
<td>1,858.71 - 2,301.26</td>
</tr>
<tr>
<td>M18</td>
<td>280 - 340</td>
<td>2,855.16</td>
<td>3,466.98</td>
<td>2,478.28 - 3,009.34</td>
</tr>
<tr>
<td>M20</td>
<td>370 - 450</td>
<td>3,772.89</td>
<td>4,586.65</td>
<td>3,274.87 - 3,982.95</td>
</tr>
<tr>
<td>M22</td>
<td>-</td>
<td>5,404.41</td>
<td></td>
<td>4,691.03</td>
</tr>
<tr>
<td>M24</td>
<td>-</td>
<td>6,831.99</td>
<td></td>
<td>5,930.17</td>
</tr>
<tr>
<td>M27</td>
<td>-</td>
<td>10,197.00</td>
<td></td>
<td>8,851.00</td>
</tr>
<tr>
<td>M30</td>
<td>-</td>
<td>14,628.78</td>
<td></td>
<td>11,860.34</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></td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reel shaft</td>
<td>LM56G--120420</td>
<td>GEAR, 20-TEETH</td>
<td>36</td>
<td>367.09</td>
</tr>
<tr>
<td>(Groomer model)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front roller</td>
<td>K6083000042</td>
<td>PIN, STEPPED M15-19</td>
<td>29 - 38</td>
<td>295.71 - 387.49</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td></td>
<td></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></td>
<td></td>
<td></td>
<td></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>

---

**Handling Instructions**

Page 4-10

Tightening Torques
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.

<table>
<thead>
<tr>
<th>1</th>
<th>Bolt</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Conical spring washer</td>
</tr>
<tr>
<td>3</td>
<td>Washer</td>
</tr>
</tbody>
</table>

A High  
B Low

Adjustment of IGCA (Independent Grass Catcher Arm)

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

**Important**  
When adjusting the height of handle, adjust IGCA.

1. Remove the traveling tires.  
2. Flip up the stand.  
3. Install the grass catcher.  
4. Adjust the handle pipe so that it can locate at the center of the handle guide.

**Important**  
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.
6. Repeat the same process for adjustment of the opposite link rod.

Adjustment of gap for the grass catcher:

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjust so that the grass catcher will not overlap with the stay.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjust so that the small gap between the grass catcher and the stay will be even.</td>
</tr>
</tbody>
</table>

![Diagram of grass catcher and stay](gp7sf7-003)

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

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>The shaft has a through-hole into which the clip pin will be inserted. To adjust length always turn the shaft 180 degrees to keep holes aligned.</td>
</tr>
</tbody>
</table>

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

4. Tighten the right and left locknuts.

Adjustment of IGCA (Independent Grass Catcher Arm)_004

| 1 | Locknut |
| 2 | Clip pin |
| 3 | Shaft |

**Adjustment of Blade Engagement**

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

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

Adjustment of Blade Engagement_001

| 1 | Traveling/Working selector lever |
| A | Reel ON |
| B | Travel ON |
| C | Travel OFF |

Stop the engine.
Set the traveling/working selector lever to the "Travel OFF" position.
3. With the cutter adjustment nut, adjust the engagement between the reel cutter (cutting cylinder) and the bed knife (bottom blade) so that newspaper (one sheet) will be cleanly cut by the edge of both blades when the blades in their entirety come slightly into contact with each other.

4. Insert a strip of newspaper into the space between the reel cutter (cutting cylinder) and the bed knife (bottom blade) at an angle of 90 degrees. Then, rotate the reel cutter (cutting cylinder) counter-clockwise (when you face the mower unit from the left) to check the sharpness of the blades. Check the sharpness of the entire range (at three or four points) of the reel cutter (cutting cylinder).
   - If there is a gap between the blade edges: Loosen (rotate counter-clockwise) the cutter adjustment nut to apply more contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
   - If the reel cutter (cutting cylinder) is too tight to turn: Tighten (rotate clockwise) the cutter adjustment nut to reduce the contact pressure between the reel cutter (cutting cylinder) and the bed knife (bottom blade).
   - If the blades still cannot cut well: Perform back lapping of the reel cutter (cutting cylinder).

Adjustment of Cutting Height

Adjust the cutting height to fit your cutting work.

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

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

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

The recommended minimum cutting height according to the blade thickness of the bed knife (bottom blade) is as indicated below.
### LM56GC / LM66GC / LM66TC
#### Handling Instructions

<table>
<thead>
<tr>
<th>Type</th>
<th>Blade type</th>
<th>Thickness of blade (mm/inch)</th>
<th>Rough minimum cutting height (mm/inch)</th>
<th>Code</th>
<th>Part name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM56GC</td>
<td>Standard blade</td>
<td>1.0/0.039</td>
<td>2.5/0.098</td>
<td>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>K2511000270, K2511000390</td>
<td>1.5 Bed knife 55G, 1.5 Bed knife 55G-47</td>
<td>Offset 5 mm, Offset 5 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0/0.079</td>
<td>3.5/0.138</td>
<td>K2511000280, K2511000350</td>
<td>2 Bed knife 55G, 2 Bed knife 55G-47</td>
<td>Offset 5 mm, Offset 5 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000050, K2511000240</td>
<td>2.5 Bed knife 55G, 2.5 Bed knife 55G-47</td>
<td>Offset 5 mm, Offset 5 mm</td>
</tr>
<tr>
<td></td>
<td>High-speed-steel-tipped blade</td>
<td>3.0/0.118</td>
<td>4.5/0.177</td>
<td>K2510000060</td>
<td>3 Bed knife 62.5-559</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000160</td>
<td>5 Bed knife 62.5-559</td>
<td>Standard equipment</td>
</tr>
<tr>
<td>LM66GC</td>
<td>Standard blade</td>
<td>1.5/0.059</td>
<td>3.0/0.118</td>
<td>K2511000310</td>
<td>1.5 Bed knife 65G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0/0.079</td>
<td>3.5/0.138</td>
<td>K2511000300, K2511000360</td>
<td>2 Bed knife 65G, 2 Bed knife 65G-47</td>
<td>Offset 5 mm, Offset 5 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5/0.098</td>
<td>4.0/0.157</td>
<td>K2511000200, K2511000250</td>
<td>2.5 Bed knife 65G, 2.5 Bed knife 65G-47</td>
<td>Offset 5 mm, Offset 5 mm</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>K2510000150</td>
<td>3 Bed knife 62.5-648.4</td>
<td>Standard equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000170</td>
<td>5 Bed knife 62.5-648.4</td>
<td>Standard equipment</td>
</tr>
<tr>
<td>LM66TC</td>
<td>High-speed-steel-tipped blade</td>
<td>3.0/0.118</td>
<td>4.5/0.177</td>
<td>K2510000150</td>
<td>3 Bed knife 62.5-648.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0/0.197</td>
<td>7.0/0.276</td>
<td>K2510000170</td>
<td>5 Bed knife 62.5-648.4</td>
<td></td>
</tr>
</tbody>
</table>

#### Diagram
![Diagram of bed knife with labels](33i8xmn-002)

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

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

3. Loosen left and right special nut A.

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

5. Adjust special nut B up or down so that the left and right sides are parallel.
6. Follow the same steps to adjust the groomer height on the opposite side.

7. Firmly tighten the nuts that secure the left and right groomer adjustment screws.

8. Tighten left and right special nut A.

9. Again, make sure that the groomer height is at the required position by positioning the cutting height gauge against the front roller and drum at the edge on the left and right sides of the mower unit.

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

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

### Procedure to Start/Stop Engine

#### Start/Stop of Engine

**Procedure to Start Engine**

**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.
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.
**Procedure to Start/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.**

---

**Procedure to Start Engine**

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

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

---

**Procedure to Stop Engine**

1. Don't grip the main clutch lever.

<table>
<thead>
<tr>
<th>Procedure to Stop Engine_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Main clutch lever</td>
</tr>
<tr>
<td>2. Clutch lock lever</td>
</tr>
<tr>
<td>A. ON</td>
</tr>
<tr>
<td>B. OFF</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Procedure to Stop Engine_002</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Engine switch</td>
</tr>
<tr>
<td>A. ON</td>
</tr>
<tr>
<td>B. OFF</td>
</tr>
</tbody>
</table>

3. Make sure that the brake is locked.

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

---

**Handling Instructions**

Procedure to Stop Engine

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

Procedure to Stop Engine

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

1. Decal, engine switch
2. Decal, clutch
3. Decal, groomer indication
4. Decal, light switch
5. Sticker, alignment 10300
**Description of Operation Decals**

**Engine Switch Mark**

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

![Engine Switch Mark](rcyo1p-003)

**Clutch Decal**

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

![Clutch Decal](es1gyn-002)

**Groomer Indication Mark**

Note:
Depending on the specifications, this function may not be available.
K4203001120
DECAL, GROOMER INDICATION
It illustrates the changeover of rotational direction of the groomer.

![Groomer Indication Mark](n54vge-001)

**Light Switch Mark**

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

![Light Switch Mark](mzmbmi-003)

---

**Handling Instructions**

LM56GC • LM66GC / LM66TC

Operation Method
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.

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

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.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engine switch</td>
</tr>
<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.
Note:
The factory default engine rpm (maximum) is set to 3,400 rpm.
Operate at about 3,000 rpm.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Throttle lever</td>
</tr>
<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.
Note:
The factory default engine rpm (maximum) is set to 3,400 rpm.
Operate at about 3,000 rpm.

Brake Lever

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

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

Clutch Lock Lever

The clutch lock lever is located in the handle.

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

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

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

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

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

<table>
<thead>
<tr>
<th></th>
<th>Traveling/Working Selector Lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Reel ON</td>
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<tr>
<td>B</td>
<td>Travel ON</td>
</tr>
<tr>
<td>C</td>
<td>Travel OFF</td>
</tr>
</tbody>
</table>
**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.
### 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 can not be manually reset. When the accumulated time exceeds 99999 hours, the display automatically shows zero for restart.
Travel of Machine

Traveling Procedure

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

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

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

Important
Mow with the traveling tires removed.

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

Removal of traveling tires:
1. Set the machine on its stand.
2. While sliding the lever of the wheel mounting plate and holding it in the released position, pull the traveling tire toward you to remove it.

3. Follow the same steps to remove the traveling tire on the opposite side.

Installation of traveling tires:

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

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

1. Traveling tires
2. Drum shaft
A. Depressions and projections that fit together
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.

![Diagram of the wheel mounting plate and groove](image)

For installing the traveling tires, reverse the removing procedure.

Removing/Installing Grass Catcher

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

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

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

![Diagram of the grass catcher and roller bracket](image)

**Transporting**

**Transporting Procedure**

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

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

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

Be extremely careful when loading the machine into a truck or a trailer. Before loading or unloading, stop the truck or trailer on a level surface in a safe location, apply the parking brake, stop the engine, and then chock the wheels.

Before loading into a truck or a trailer for transportation, apply the parking brake of the machine, stop its engine, and then secure the machine with rope or any other sufficiently strong restraining device. When using a loading ramp, select one of sufficient length, width and strength, and that will not allow the machine to slip off.

**Storage**

**Before Long-Term Storage**

- Remove any dirt, grass, debris, or oil stains completely.
- Supply oil and apply grease to appropriate parts.
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Maintenance 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>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>*2 Check tightening bolts and nuts</td>
<td></td>
<td>○</td>
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<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 air cleaner</td>
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<tr>
<td>Clean engine and circumference of the muffler cover</td>
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<td>*2 Check spark plug</td>
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<td>*2 Clean spark arrester</td>
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<td>*2 Clean sediment cup</td>
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<td>*1 Clean fuel tank &amp; filter</td>
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<td>*1 Check idling speed</td>
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<td>Check valve clearance</td>
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<td>Check every 300 hours or every year whichever comes earlier</td>
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<td>*2 Replace spark plug</td>
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<td>*1 Remove carbon in combustion chamber</td>
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<td>*1 Check fuel hoses and clamp bands</td>
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</tbody>
</table>

**Remarks**

- Check every 300 hours or every year whichever comes earlier
- Paper filter element: Replace every 300 hours or every year whichever comes earlier
- Foam filter element: Replace as necessary
- Replace every 300 hours or every year whichever comes earlier
<table>
<thead>
<tr>
<th>Maintenance Item</th>
<th>Before Work</th>
<th>After Work</th>
<th>Every 10 hrs.</th>
<th>Every 20 hrs.</th>
<th>Every 25 hrs.</th>
<th>Every 50 hrs.</th>
<th>Every 100 hrs.</th>
<th>Every 300 hrs.</th>
<th>Every 500 hrs.</th>
<th>Every year</th>
<th>Every 2 years</th>
<th>When Required</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Driving section</td>
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<tr>
<td>Check tire pressures and condition</td>
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<td></td>
<td>When Required</td>
<td>Maintenance schedules differ according to greasing points</td>
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<tr>
<td>Check damaged parts</td>
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<td>When Required</td>
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<tr>
<td>Check tightening bolts and nuts</td>
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<tr>
<td>Check main clutch lever actuation</td>
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<td>Check brake function</td>
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<td>Check work lamp illumination</td>
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<td>Adjust handle position</td>
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<td>When Required</td>
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<td>Check safety lock of main clutch</td>
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<td>When Required</td>
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<td>Check cover condition</td>
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<td>Clean driving section</td>
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<tr>
<td>Grease and Lubricate all moving parts</td>
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<td>When Required</td>
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<tr>
<td>Adjust engine clutch spring</td>
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<td>Check brake wire</td>
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<tr>
<td>Check electrical wiring condition (Damage, defacement and joint looseness)</td>
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<td>Adjust engine clutch gap</td>
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<td>When Required</td>
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<td>Check throttle wire</td>
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<td>Check main clutch wire</td>
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<td>Cutting section</td>
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<tr>
<td>Check blade condition (Reel cutter and Bedknife)</td>
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<td>When Required</td>
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<td>Check roller condition</td>
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<td>When Required</td>
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<td>Check groomer condition</td>
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<td>When Required</td>
<td>O</td>
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<tr>
<td>Engage blades</td>
<td>O</td>
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<td></td>
<td></td>
<td>When Required</td>
<td>O</td>
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<tr>
<td>Check mowing height</td>
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<td></td>
<td></td>
<td>When Required</td>
<td>O</td>
</tr>
<tr>
<td>Adjust groomer</td>
<td>O</td>
<td></td>
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<td></td>
<td>When Required</td>
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<tr>
<td>Check damaged parts</td>
<td>O</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>When Required</td>
<td>O</td>
</tr>
<tr>
<td>Check tightening bolts and nuts</td>
<td>O</td>
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<td></td>
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<td></td>
<td></td>
<td>When Required</td>
<td>O</td>
</tr>
<tr>
<td>Clean cutting section</td>
<td>O</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>When Required</td>
<td>O</td>
</tr>
<tr>
<td>Grease</td>
<td>O</td>
<td>O</td>
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<td></td>
<td></td>
<td>When Required</td>
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<tr>
<td>Replace bearings inside gearcase</td>
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<td>When Required</td>
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<tr>
<td>Replace front roller bearings</td>
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<td></td>
<td></td>
<td>When Required</td>
<td>△</td>
</tr>
<tr>
<td>Replace oil seals inside gearcase</td>
<td>△</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>When Required</td>
<td>△</td>
</tr>
</tbody>
</table>
## Maintenance Schedule

### Cutting Section

<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>Replace front roller oil seals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Replace grease inside gearcase</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Clean and Grease Bedknife</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Eccentric Bushes</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjust cutter adjustment spring</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlap blades</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regrind blades (Reel cutter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Remarks**: Grind/Replace blades as and when required

### 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></td>
</tr>
<tr>
<td>Length of coil spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reel cutter shaft bearing preload</td>
<td>11.5 mm (0.453 in)</td>
<td>Total length of spring</td>
</tr>
<tr>
<td>spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reel cutter rotation torque</td>
<td>0.8 - 1.0 N • m (8 - 10 kgf • cm)</td>
<td></td>
</tr>
<tr>
<td>Engine clutch</td>
<td>0.5 - 1.0 mm (0.020 - 0.039 in)</td>
<td>Gap between engine clutch and clutch facing</td>
</tr>
<tr>
<td>Engine clutch spring</td>
<td>61.0 mm (2.40 in)</td>
<td>Total length of spring</td>
</tr>
</tbody>
</table>

---

- *1: Consult your local Baroness Dealer for this service.
- The values for consumables are not guaranteed.
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>Frame &amp; Transmission</td>
<td>7</td>
<td>A B</td>
</tr>
<tr>
<td>Differential gear</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Reel bearing</td>
<td>2</td>
<td>- B</td>
</tr>
<tr>
<td>Drum housing</td>
<td>2</td>
<td>- B</td>
</tr>
<tr>
<td>Front roller</td>
<td>2</td>
<td>- B</td>
</tr>
<tr>
<td>Groomer</td>
<td>4</td>
<td>A B</td>
</tr>
<tr>
<td>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.

1. Clutch lock lever fulcrum
2. Throttle lever fulcrum
Note: Depending on the specifications, this function may not be available.
Maintenance Work

Adjustment of Cutter Adjustment Spring

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

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

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

![Adjustment of Cutter Adjustment Spring](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 mm (1.97 in)</td>
</tr>
</tbody>
</table>

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.
2. When you raise the bed knife (bottom blade) by 0.1 mm (0.004 in), turn the left cam bush clockwise 30 degrees.
3. Once the adjustment completed, tighten the locknut securely.

When the gap appears on the right side:
1. Turn the right cam bush counterclockwise to eliminate only the gap distance.
2. Once the adjustment completed, tighten the locknut securely.

Note:
The figure below shows the situation when you see from the left side.
The right side is mirror reversed.

![Adjusting CAM](image)
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.

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

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

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

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

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

**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)**

**Caution**

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

**Caution**

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

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

Sharpen the reel cutter (cutting cylinder) when the sharpness cannot be restored, even after back lapping, or when the relief (second edge face) has worn away, there is full contact or back lapping takes too much time.

In addition, if the reel cutter (cutting cylinder) becomes worn and its shape conical, perform cylindrical grinding to return it to a cylindrical shape.

**For sharpening the reel cutter (cutting cylinder), contact your dealer or Baroness. If the outer diameter of the reel cutter (cutting cylinder) after sharpening is more than the usage limit, the reel cutter (cutting cylinder) can be sharpened.**

<table>
<thead>
<tr>
<th>New</th>
<th>Usage limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A (Outer diameter of reel cutter (cutting cylinder))</td>
<td>Dimension B (Distance from blade edge to outer edge of reel cutter (cutting cylinder) shaft)</td>
</tr>
<tr>
<td>128 mm (5.04 in)</td>
<td>51.3 mm (2.02 in)</td>
</tr>
<tr>
<td>46.3 mm (1.82 in)</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

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

![Sharpening of Reel Cutter (Cutting Cylinder)_001](image)

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

2. When the edges become blunt or the blade edge cannot be formed with back lapping

3. When the reel cutter (cutting cylinder) becomes worn and its shape conical, or when blade engagement adjustment cannot be performed

Replacement of Reel Cutter (Cutting Cylinder)

**Caution**

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

**Caution**

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

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

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

<table>
<thead>
<tr>
<th>New</th>
<th>Usage limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>128 mm (5.04 in)</td>
<td>118 mm (4.65 in)</td>
</tr>
</tbody>
</table>

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

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

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

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

Important
Use 30204JRP6 as bearing.

1. Fill up the bearings and oil seals with grease (Excellite 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  | Reel gear                  |
| 2  | Reel gear fixing nut       |
| 3  | Torque wrench              |
| A  | 11.5 mm (0.453 in)         |
Replacement of Bed Knife (Bottom Blade)

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

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

The criteria for replacing the bed knife (bottom blade) are described below.
1. When the reel cutter (cutting cylinder) is ground
2. When the reel cutter (cutting cylinder) is replaced
3. When the bed knife (bottom blade) is worn
   Standard blade
   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.

Removal/Installation of 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.

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.

![Diagram of bed knife base](kx7caa-001)

| 1 | Bed knife base COMP |
| 2 | Cutter pin          |
| 3 | Lock nut            |
| 4 | Cam bush            |

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.

![Diagram of bed knife base arm](kx7caa-002)

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

![Diagram of bed knife base arm bolts](kx7caa-003)

| 1 | Bolt       |
| 2 | Spring washer |
| 3 | Washer     |

**Important**

Do not tighten the left and right lock nuts.

5. Tighten the left and right cutter pins used to temporarily install the bed knife base COMP.
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.
If one to five gap adjustment washers had been inserted between the fulcrum seat and the frame, insert gap adjustment washers so that the gap is eliminated.

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

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

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

<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.

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

<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>
Removing/Installing 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.

2. Unscrew the 4 bolts, and then detach the small cover (left).

Installing The Small Cover (Left)

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

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).

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

Maintenance Work Page 5-21
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 Section

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

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

Adjustment of 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.

![Adjustment of Engine Clutch_002](image)

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.

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

![Adjustment of Clutch Wire_001](image)

Adjustment of Clutch Wire_001

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engine clutch</td>
</tr>
<tr>
<td>2</td>
<td>Clutch plate</td>
</tr>
<tr>
<td>3</td>
<td>Clutch facing</td>
</tr>
<tr>
<td>4</td>
<td>Clutch wire adjusting nut</td>
</tr>
<tr>
<td>5</td>
<td>Clutch wire</td>
</tr>
<tr>
<td>A</td>
<td>1.0 - 2.0 mm (0.039 - 0.079 in)</td>
</tr>
</tbody>
</table>

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

**Adjustment of Clutch Spring_001**

**Change of Air Cleaner**

A contaminated air cleaner element may cause malfunction of the engine.

To maximize the life of the engine, replace the air cleaner element at the appropriate times.

1. The timing for replacing the air cleaner element is described below.
   [1] Replace the air cleaner element in accordance with the Maintenance Schedule.
   [2] If it is significantly contaminated, replace it, even if the hours of operation do not exceed the specified time.

2. Replace the air cleaner element by following the same steps as for cleaning the air cleaner.
   "Cleaning of Air Cleaner" (Page 4-4)

**Replacement of Engine Oil**

**Caution**

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

**Important**

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

**Important**

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

**Important**

Screw the oil level gauge firmly.

Replace the engine oil more frequently if the engine oil is contaminated, and especially if you use the machine in dusty areas or operate the engine at high loads or in high temperatures.

1. Move the machine onto a level surface, stop the engine.
2. Remove the drain plug while the engine oil is warm, and then drain the engine oil into a bowl.
3. Replace the drain plug in the engine.
4. Remove the oil level gauge.
5. Through the oil filling port, supply new engine oil.
   The engine oil quantity is approximately 0.56 dm³ (0.56 L).
6. Position the machine so that the engine will be level, then check the engine oil level without screwing the oil level gauge into the oil filling port.

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>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the roller bracket secured?</td>
<td><strong>YES</strong> Tightening to secure&lt;br&gt;<strong>NO</strong> Replacement of securing screws</td>
</tr>
<tr>
<td>Have adjustments been made to obtain desired cutting height?</td>
<td><strong>YES</strong> Adjustment of cutting height</td>
</tr>
<tr>
<td>Does the front roller rattle up and down?</td>
<td><strong>NO</strong> <strong>YES</strong> Replacement of front roller bearing&lt;br&gt;Replacement of front roller shaft</td>
</tr>
<tr>
<td>Does the drum rattle up and down?</td>
<td><strong>NO</strong> <strong>YES</strong> Replacement of drum bearing&lt;br&gt;Replacement of drum shaft&lt;br&gt;Replacement of drum shaft bearing</td>
</tr>
<tr>
<td>Are the clippings discharged frequently?</td>
<td><strong>NO</strong> <strong>YES</strong> Since the load of clippings in the grass catcher may sink the front roller, discharge the clippings frequently. Replace the front roller with a smooth one</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><strong>NO</strong> <strong>YES</strong> Change of cutting height&lt;br&gt;Replacement of bed knife (bottom blade)</td>
</tr>
<tr>
<td>Do the greens have large undulations?</td>
<td><strong>YES</strong> <strong>NO</strong> Increasing of cutting height&lt;br&gt;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 matted?</td>
<td><strong>NO</strong> <strong>YES</strong> Replace the front roller with a smooth one&lt;br&gt;Rehabilitation of greens (vertical cutting, etc.)&lt;br&gt;Application of topdressing sand</td>
</tr>
<tr>
<td>Are the greens sloped?</td>
<td><strong>YES</strong> Change of cutting direction</td>
</tr>
<tr>
<td>Is the surface of the greens finished?</td>
<td><strong>NO</strong> <strong>YES</strong> Increasing of cutting height&lt;br&gt;Replace the front roller with a smooth one</td>
</tr>
<tr>
<td>Surface finishing of greens (compaction rolling, etc.)</td>
<td><strong>NO</strong> <strong>YES</strong></td>
</tr>
</tbody>
</table>

### Angled Mismatch

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

*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).*
Troubleshooting Procedures of Aftercut Appearance

Has the bed knife (bottom blade) become curved?

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

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

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

- NO
- Clean and lightly apply grease to make sliding smoother, and then reassemble.

Does the reel cutter (cutting cylinder) move sideways?

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

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

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

- YES
- Replacement of cam bush
  - Replacement of frame

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

Do the cam bush and frame rattle considerably?

- YES
- 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 engagement tight?
  - YES: Loosening of blade engagement
  - NO: Has topdressing sand been applied?
    - YES: Is the blade contact uneven?
      - YES: Adjustment of spring compression length (See "Adjustment of Cutter Adjustment Spring").
      - NO: Use lapping powder with a grit size of #200 – #400.
    - NO: Is the blade face of the bed knife (bottom blade) too rough?
      - YES: Replacement of cam bush
      - NO: Replacement of cutter pin

Is the spring pressure for the adjustment lever too light?
- YES: Is the sliding of the cam bush and frame extremely rough?
  - YES: Clean and lightly apply grease to make sliding smoother, and then reassemble.
  - NO: Is the reel bearing outer ring driven in at an angle?
    - YES: Correctly driving in the outer ring
    - NO: Is the frame warped near the mounting location of the reel bearing?
      - YES: Replacing reel bearing
      - NO: Is there runout or bending in the reel cutter (cutting cylinder) shaft?
        - YES: Cylindrical grinding of reel cutter (cutting cylinder)
        - NO: Is the grit size of the lapping powder #200 – #400?
          - YES: Use lapping powder with a grit size of #200 – #400.
          - NO: Work in sand

Is the groomer being used?
- YES: Stopping use of groomer
- NO: Increasing groomer height

Has topdressing sand recently been applied?
- YES: Work in sand
- NO: Is the reel bearing malfunctioning?
  - YES: Cylindrical grinding of reel cutter (cutting cylinder)
  - NO: Is the reel bearing engagement tight?
    - YES: Replacement of reel bearing with genuine parts
    - NO: loosening of blade engagement, blades still do not cut.

Do the cam bush and frame rattle?
- YES: Profusely apply grease to the reel bearing before installing it. Replace the oil seal at the same time.
- NO: Replacement of cam bush
  - Replacement of cutter pin

Do the cam bush and cutter pin rattle considerably?
- YES: Replacement of cam bush
- NO: Replacement of frame

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

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

<Important>

LM56GC • LM66GC / LM66TC
Maintenance

Troubleshooting Procedures of Aftercut Appearance
Page 5-27
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>
</table>
| Asymmetrical wear of reel cutter (cutting cylinder) | Cylindrical grinding of reel cutter (cutting cylinder)  
Replacement of reel cutter (cutting cylinder) |
| Asymmetrical wear of bed knife (bottom blade)        | Surface grinding of bed knife (bottom blade)  
Replacement of bed knife (bottom blade) |
| Distortion of frames                                   | Rearrange frames in parallel                |

**Important**

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

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: BARONESS
Type: LM56
Version(s): GC
Starting Serial No.: 35031
Measured Sound Power Level: LWA 96.24 dB
Guaranteed Sound Power Level: LWA 98 dB
Manufacturer: 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

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-pref., Japan
Compiler of the technical file: Kyoeisha U.K. Ltd.
Address: Unit 5 Hatch Industrial Park Grewel Road, Basingske 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°0302°07/7TCLM56-07

Place: Japan
Date: 16 April 2018 (18 / 4 / 2018)

Signature: [Signature]
Name: Kimiya Kaneko
Position: Quality Dept. Manager

Déclaration de conformité UE

Identification du produit
Produit : Tondeuse à gazon
Fabricant : BARONESS
Type : LM56
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 5395-1 : 2013 (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 Grewel 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
Numéro de certificat/Documentation technique : SNCH/2000/14/2005/88°0302°07/7TCLM56-07
Declaración de conformidad de la UE

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

Cumple las siguientes Directivas
2006/42/CE Maquinaria (MD)
2014/30/UE Compatibilidad electromagnética (EMC)
2000/14/CE Emisiones sonoras de máquinas de uso al aire libre

Se ha diseñado y fabricado utilizando las siguientes especificaciones
ISO 5395-1 : 2013 (2006/42/CE)

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

Compilador del archivo técnico: (2006/42/CE)
Nombre: Kyoeisha U.K. Ltd.
Dirección: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido

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

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

EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONESS
Modell: LM56
Version(en): GC
Seriennummer: 35031
Geräuschemission: LWA 96.24 dB
Garantieter Schallleistung: LWA 98 dB
Hersteller
Name: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Entspricht den folgenden Richtlinien
2006/42/EG Maschinenrichtlinie
2014/30/EG 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 Halters: Kyoeisha Co., Ltd.
Adresse des Halters: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

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

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

Beteiligte benannte Stelle (2000/14/EG)
Name: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo
Bescheinigung/Technische Dokumentation Nr.: SNCH*2000/14*2005/88*0302*07/TCLM56-07
EU-försäkran om överensstämme

Produktidentifiering
Produkt: Gräsklippare
Mark: BARONESS
Typ: LM56
Version(er): GC
Serienummer startar på: 35031
Uppmätta ljudnivåer: LWA 96.24 dB
Garanterad ljudnivå: LWA 98 dB
Tillverkare: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Uppfyller följande direktiv
2006/42/EG Maskindirektivet
2014/30/EU Elektromagnetisk kompatibilitet (EMC)
2000/14/EG Utemhusutrustning

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: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Den tekniska filen(2006/42/EG) har tagits fram av
Namn: Kyoeisha U.K Ltd.
Adresse: Unit 5 Hatch Industrial Park Grewell Road, Basingstoke Hampshire RG24 7NG, Storbritannien

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

Anmält organ (2000/14/EG)
Namn: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certifikat/Teknisk dokumentation nummer: SNCH2000/14*2005/88*0302*07/TCLM56-07
EU Declaration of Conformity

Lawnmower
BARONESS
LM66
TC
35001
LWA 95.42 dB
LWA 98 dB
Kyoeisha Co., Ltd.
1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

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

ISO 5395-1 : 2013 (2006/42/EC)

Kyoieisha Co., Ltd.
1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

Kyoieisha U.K.Ltd.
Unit 5 Hatch Industrial Park Greewell Road,Basingstoke Hampshire RG24 7NG, the United Kingdom

SNCH
11, Route de Sandweiler 5230 Sandweiler Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

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

Kimya Kameko
Name : Kimya Kameko
Position : Quality Dept. Manager

Déclaration de conformité UE

Identification du produit
Produit :
Tondeuse à gazon
BARONESS
LM66
TC
35001
LWA 95.42 dB
LWA 98 dB
Kyoeisha Co., Ltd.
1-26, Miyuki-cho, Toyokawa, préfecture d'Aichi, Japon

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

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

Adresse : 11, Route de Sandweiler 5230 Sandweiler Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

Nom : SNCH
Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

Nom : SNCH
Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

Nom : SNCH
Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04

Nom : SNCH
Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
SNCH*2000/14*2005/88*1258*04/TCLM66-04
Declaración de conformidad de la UE

Identificación del producto
Producto: Cortacésped
Marca: BARONNESS
Tipo: LM66
N.º de serie inicial: 35001
Nivel de potencia sonora medido: LWA 95,42 dB
Nivel de potencia sonora garantizado: LWA 98 dB
Fabricante: Kyoeisha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas
2006/42/CE Maquinaria (MD)
2014/30/UE Compatibilidad electromagnética (EMC)
2000/14/CE Emisiones sonoras de máquinas de uso al aire libre

Se ha diseñado y fabricado utilizando las siguientes especificaciones
ISO 5395-1 : 2013 (2006/42/CE)

Documentación técnica
Nombre del responsable: Kyoeisha Co., Ltd.
Dirección del responsable: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón
Nombre: Unit 5 Hatch Industrial Park Greywell Road, Basingstoke Hampshire RG24 7NG, Reino Unido
Dirección: SNCH
Certificado/Documentación técnica n.º: SNCH/2000/14/2005/88*1258*04/TCLM66-04

Procedimientos de evaluación de conformidad
Control de fabricación interno: Módulo A (2006/42/CE)
Examen de tipo CE: Módulo B (2014/30/UE)
Control interno de fabricación con evaluación de documentación técnica y comprobaciones periódicas (2000/14/CE)
Organismo notificado implicado (2000/14/CE): SNCH
Nombre: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo

EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONNESS
Modell: LM66
Version(en): TC
Startseriennummer: 35001
Gemessener Schalleistungspegel: LWA 95,42 dB
Garantieter Schalleistungspegel: LWA 98 dB
Hersteller: Kyoeisha Co., Ltd.
Adresse: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan

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

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

Technische Dokumentation
Name des Halter: Kyoeisha Co., Ltd.
Adresse des Halter: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japan
Technische Unterlagen erstellt von: (2006/42/EG)
Name: Kyoeisha 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)

Beteiligte benannte Stelle (2000/14/EG)
Name: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo
Bescheinigung/Technische Dokumentation Nr.: SNCH/2000/14/2005/88*1258*04/TCLM66-04
EU-försäkran om överensstämmelse

Produktdentifiering:
Produkt: Gräsklippare
Märke: BARONESS
Typ: LM66
Version(er): TC
Serienummer startar på: 35001
Lämpomt. lyddefektiv: LWA 95,42 dB
Garanterad lyddefektiv: 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 Bärlärmavfall 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: 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

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

Anmält organ: SNCH
Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certifikat/Teknisk dokumentation nummer: SNCH 2000/14*2005/86*1258*04/TCLM66-04

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