"Required reading"
Read this manual and the Owner's Manual for the engine before using the machine.
Thank you for purchasing the Baroness machine. This manual explains proper handling, adjustment, and inspection of your machine. Prior to use, carefully read this manual to thoroughly understand the contents for safe and correct operation. We hope you will use the machine safely, and take advantage of its best performance.
Read this manual carefully to ensure that you thoroughly understand how to properly operate and maintain this machine, and to avoid causing injury to yourself or others.

The operator is responsible for operating the machine properly and safely.

Do not perform maintenance on the machine other than that described in this manual.

Maintenance should only be performed by a certified specialist.

If you have any questions concerning maintenance or genuine parts, please contact your local Baroness dealer or Kyoeisha.

When making inquiries about this machine, please specify the machine’s model designation and serial number.

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

Kyoeisha Co., Ltd.

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**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.

---

**Warning Symbols**

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

- **Danger**: This symbol indicates that serious injury or death will occur if the warning is ignored.
- **Warning**: This symbol indicates that serious injury or death may occur if the warning is ignored.
- **Caution**: This symbol indicates that injury or damage to property may occur if the warning is ignored.
- **Important**: This symbol indicates precautions on the mechanism of the machine.
Purpose

This machine is intended for transporting Baroness walk behind reel mower. (LM18/56/66/101 series)
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.
In addition, this machine do not operate it on public roads.
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Failure to adequately follow these safety precautions may cause an accident resulting in injury or death.

**Danger**

This machine is designed to ensure safe operation and has been tested and inspected thoroughly before shipment from the factory. The machine is equipped with safety devices to prevent accidents. However, whether the machine 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 machine 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 material 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 children or 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. 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.

**Operation**

1. Take care when loading or unloading the machine into a trailer or a truck.
2. Fasten the machine to the truck with a rope or other suitable restraining device that has sufficient strength.
3. When using a running board, select one with sufficient strength, length, and width and that will not cause the machine to slip.

**Maintenance and Storage**

1. Stop the machine on the level ground before adjusting, cleaning or repairing.
2. Appropriately manage and correctly use the tools necessary for servicing or adjusting the machine.
3. Carefully release pressure from components with stored energy.
4. Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
5. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.

**Towing**

1. Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
Recycle and Waste Disposal ............... Page 2-2

About Recycle ........................................Page 2-2
About the Waste disposal ......................Page 2-2
Recycle and Waste Disposal

About Recycle

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

About the Waste disposal

Make sure that waste generated when servicing or repairing the machine is disposed of in accordance with local regulations.
(e.g. waste oil, antifreeze, rubber products, and wires etc.)
Specifications ........................................ Page 3-2

Specifications ........................................ Page 3-2

Names of Each Section ......................... Page 3-2

Serial Number Plate ............................... Page 3-3

Safety Signs and Instruction Signs .... Page 3-4

About Safety Signs and Instruction Signs ...................................... Page 3-4

Positions of Safety Decals and Instruction Decals ...................... Page 3-4

Description of Safety Decals and Instruction Decals .................... Page 3-5
## Specifications

### Model

<table>
<thead>
<tr>
<th>TR50</th>
</tr>
</thead>
</table>

### Type (Loading method)

<table>
<thead>
<tr>
<th>Mower drums</th>
<th>Mower tires</th>
</tr>
</thead>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Total length</th>
<th>266 cm</th>
<th>104.72 in</th>
<th>273 cm</th>
<th>107.48 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>18” mower</td>
<td>138 cm</td>
<td>54.33 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22” mower</td>
<td>147 cm</td>
<td>57.87 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26” mower</td>
<td>157 cm</td>
<td>61.81 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total width</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total height</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tire</td>
<td>41 cm</td>
<td>16.14 in</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>58 kg</th>
<th>127.87 lb</th>
<th>69 kg</th>
<th>152.12 lb</th>
</tr>
</thead>
</table>

### Maximum inclination for operation

15 degrees

### Tire size

16 x 6.50-8

### Tire pneumatic pressure

200 kPa (2.0 kgf/cm²) 29.01 psi

### Applicable towing vehicle

Towing capacity 200 kg or more 440.92 lb or more

### Names of Each Section

<table>
<thead>
<tr>
<th>TR50 (Loading method : Mower drums)</th>
</tr>
</thead>
</table>

1. Hitch
2. Pedal
3. Axle lock lever
4. Drum shaft lock lever
5. Tire
6. Tilting table
A. Serial number plate
TR50 (Loading method: Mower tires)

Names of Each Section

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hitch</td>
<td>2</td>
<td>Pedal</td>
<td>3</td>
<td>Axle lock lever</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Tire</td>
<td>6</td>
<td>Tilting table</td>
<td>A</td>
<td>Serial number plate</td>
<td></td>
</tr>
</tbody>
</table>

Serial Number Plate

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

Serial Number Plate_001
Safety Signs and Instruction Signs

About Safety Signs and Instruction Signs

**Warning**

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

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

Positions of Safety Decals and Instruction Decals

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

<table>
<thead>
<tr>
<th>Decal Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

1. **DECAL, READ OWNERS MANUAL**
2. **DECAL, ATTENTION AT SLOPE**
3. **DECAL, PROHIBITED TO RIDE ON**
# Description of Safety Decals and Instruction Decals

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Decal Code</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Safety Warning</td>
<td>K4205002160</td>
<td>Decal, read Owner's Operating Manual &lt;br&gt;Warning &lt;br&gt;Read the Owner's Operating Manual.</td>
</tr>
<tr>
<td>2</td>
<td>Slope Caution</td>
<td>K4205002170</td>
<td>Decal, attention at slope &lt;br&gt;Danger &lt;br&gt;Rollover - Never travel on slopes of 15 degrees or more. Otherwise, there is a danger of rollover. When you descend a slope, drive at low speed.</td>
</tr>
<tr>
<td>3</td>
<td>Prohibited to Ride on</td>
<td>K4205002180</td>
<td>Decal, prohibited to ride on &lt;br&gt;Danger &lt;br&gt;Never allow a person to ride on the trailer while traveling. Otherwise, the person may fall and get injured. Do not load and transport any machine other than the Baroness walk-behind reel mower series LM18/56/66/101.</td>
</tr>
</tbody>
</table>
Preparation for Use

Connection between Axle Section and Tilting Tables

Connection between Axle Unit and Tilting Tables (Mower Drums)

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

1. Fit the tilting tables onto the axle unit.
2. Align the holes in the tilting tables and axle unit.
3. Install the bolts to secure the axle unit and tilting tables.

2. Adjust the tread width.
Note:
The factory default position is that for a 22-inch mower.

3. Fit the tilting tables over the tire section.
4. Align the holes in the axle section, tire section and tilting tables.
5. Install the bolts removed in step 1 to secure the tilting tables, axle section and tire section.

Connection between Axle Section and Tilting Tables (Mower Tires)_003

1  Bolt
2  Washer
3  Spring washer
4  Nut

Connection between Towing Section and Axle Section

1. Fit the towing section into the axle section.
2. Align the holes in the axle section and towing section.
3. Apply grease to the pin, and then insert the pin through the holes of the axle section and towing section.
4. Install the washer.

Installation of Greens Mower Fixture

For the included parts to be installed on the greens mower, refer to the parts catalog of this machine.

1. Remove fulcrum bolts A and the nuts for the stand of the greens mower to be loaded.
2. Insert long fulcrum bolts B.

3. Temporarily install the side plate with the fulcrum bolt B and nut for the right side.

**Important**

The position for passing the clutch wire differs depending on the model of the greens mower. Be sure to pass the clutch wire at the correct position.

LM101
Pass the clutch wire below the fixture.

LM18/56/66 series
Pass the clutch wire above the fixture.

4. Temporarily install the fixture with the fulcrum bolt B and nut for the left side.
5. Secure the fixture to the side plate on the right side with the bolt.

6. Align the holes in the stand mounting plate and in the fixture, and then secure them with the bolt and nut.

7. Tighten all bolts and nuts used to temporarily install the side plate and the fixture.

8. Install the stand stay with the nuts.

---

**Important**

The position for attaching the stand stay differs depending on the type of mower trailer that is used. Attach it at the correct position.
Precautions for Connecting the Mower Trailer

**Caution**
Be sure to connect and disconnect the mower trailer on a level surface.

**Important**
The total weight of the trailer and greens mower is approximately 200 kg (440.92 lb). Have a vehicle ready with the ability to tow more than this weight.

**Important**
Have a vehicle ready onto which the included pin (φ20) can be installed. If anything other than the included pin is used, the hitch may be damaged.

**Important**
Make sure that the towing vehicle hitch connected with the mower trailer is sufficiently strong.

Connection Method of Mower Trailer

**Important**
Be sure to install the clip pin so that the pin will not fall out during transportation.

**Important**
When connecting the mower trailer to the towing vehicle, adjust the trailer hitch so that the traction bar is parallel to the ground.

**Important**
The clip pin has a specific installation orientation. If the clip pin is installed with the wrong orientation, it may fall out.

1. Install the included pin into the hitch.
2. Check the orientation of the clip pin, and then install it so that it will not fall out.
## Inspection Before Use

Be sure to perform an inspection before you start using the machine so that you will be able to take advantage of its optimum performance for a long period of time.

### 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>16 x 6.50-8</td>
<td>200 kPa (2.0 kgf/cm²)</td>
</tr>
</tbody>
</table>

### Hitch

**Inspection of Hitch**

1. Make sure that there is no wear or deterioration of the hitch.
2. Make sure that there is no damage to the hitch.
3. Make sure that there is no deformation of the hitch.

### Pedal Hook

**Inspection of Pedal Hooks**

1. Make sure that there is no wear or deterioration of the pedal hooks of the pedal and frame.
2. Make sure that there is no damage to the pedal hooks of the pedal and frame.
3. Make sure that there is no deformation of the pedal hooks of the pedal and frame.
Tightening torques

Standard tightening torques

Bolts and Nuts

Important

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

As to the bolts and nuts without any special instruction, tighten them in appropriate tightening torque with proper tool.
Too much tightening may cause the looseness or damage of the screw.
The strength of tightening is determined by types of screws, strength, the friction of thread face or base face and others.
The table below is for the galvanized or parkerized bolts.
In case that the strength of internal thread is weak, it is not applied.
Do not use rusty or sand attached "screw."
Otherwise, it may cause insufficient tightening even if you apply the specified tightening torque.
The friction of the screw face becomes higher and the tightening torque is canceled out by the friction, therefore sufficient tightening cannot be applied.
If "screw" is wet by water or oil, do not tighten it with normal tightening torque.
If the screw is wet, the torque coefficient will get smaller and it may result in too much tightening.
Too much tightening may cause looseness by the screw stretched or result in damage.
Do not use a bolt experienced too much burden.
Using the impact wrench requires the skill.
Do exercise as much as possible for steady tightening.

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>General bolt</th>
<th>Strength classification 4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M5</td>
<td>3 - 5</td>
<td>30.59 - 50.99</td>
</tr>
<tr>
<td>M6</td>
<td>7 - 9</td>
<td>71.38 - 91.77</td>
</tr>
<tr>
<td>M8</td>
<td>14 - 19</td>
<td>142.76 - 193.74</td>
</tr>
<tr>
<td>M10</td>
<td>29 - 38</td>
<td>296.71 - 387.49</td>
</tr>
<tr>
<td>M12</td>
<td>52 - 67</td>
<td>530.24 - 683.20</td>
</tr>
<tr>
<td>M14</td>
<td>70 - 94</td>
<td>713.79 - 958.52</td>
</tr>
<tr>
<td>M16</td>
<td>88 - 112</td>
<td>897.34 - 1142.06</td>
</tr>
<tr>
<td>M18</td>
<td>116 - 144</td>
<td>1,182.85 - 1,468.37</td>
</tr>
<tr>
<td>M20</td>
<td>147 - 183</td>
<td>1,498.96 - 1,866.05</td>
</tr>
<tr>
<td>M22</td>
<td>295</td>
<td>3,008.12</td>
</tr>
<tr>
<td>M24</td>
<td>370</td>
<td>3,772.89</td>
</tr>
<tr>
<td>M27</td>
<td>550</td>
<td>5,608.35</td>
</tr>
<tr>
<td>M30</td>
<td>740</td>
<td>7,545.78</td>
</tr>
</tbody>
</table>

N-m | kgf-cm | lb-in
### Principal tightening torques

**TR50**

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).

#### Tightening Torque by Model

<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>Axle</td>
<td>K001310080</td>
<td>BOLT, HT M10-80</td>
<td>58 - 76</td>
<td>591.43 - 774.97, 513.36 - 672.68</td>
</tr>
<tr>
<td>Tilting Table</td>
<td>K001310080</td>
<td>BOLT, HT M10-80</td>
<td>58 - 76</td>
<td>591.43 - 774.97, 513.36 - 672.68</td>
</tr>
</tbody>
</table>

---

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

---

**Nominal diameter**

<table>
<thead>
<tr>
<th>Strength classification 8.8</th>
<th>Strength classification 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8 T</strong></td>
<td><strong>11T</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Tightening torque</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>N-m</strong></td>
<td><strong>kgf-cm</strong></td>
</tr>
<tr>
<td>M5</td>
<td>5 - 7</td>
</tr>
<tr>
<td>M6</td>
<td>8 - 11</td>
</tr>
<tr>
<td>M8</td>
<td>23 - 29</td>
</tr>
<tr>
<td>M10</td>
<td>45 - 57</td>
</tr>
<tr>
<td>M12</td>
<td>67 - 85</td>
</tr>
<tr>
<td>M14</td>
<td>106 - 134</td>
</tr>
<tr>
<td>M16</td>
<td>152 - 188</td>
</tr>
<tr>
<td>M18</td>
<td>200 - 240</td>
</tr>
<tr>
<td>M20</td>
<td>245 - 295</td>
</tr>
<tr>
<td>M22</td>
<td>-</td>
</tr>
<tr>
<td>M24</td>
<td>-</td>
</tr>
<tr>
<td>M27</td>
<td>-</td>
</tr>
<tr>
<td>M30</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Heat-treated bolt**

- **8 T**: Strength classification 8.8
- **11T**: Strength classification 10.9
Adjustment Before Operating

Adjustment of Tread Width

Adjustment of Tread Width (Mower Drums)

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

1. Remove the bolts securing the axle section and tire section.
2. The installation position of the axle holes differs depending on the greens mower to be loaded.
   Align the appropriate holes in the axle section and tire section.

3. Install the bolt removed in step 1 to secure the axle section and tire section.
4. Follow the same steps to adjust the opposite side.

Note:
The factory default position is that for a 22-inch mower.

Adjustment of Tread Width (Mower Tires)

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

1. Remove the bolts securing the axle section, tire section and tilting tables.
2. The installation position of the axle holes differs depending on the greens mower to be loaded. Align the appropriate holes in the axle section, tire section and tilting table.

3. Install the bolt removed in step 1 to secure the axle section, tire section and tilting table.

4. Follow the same steps to adjust the opposite side.

**Adjustment of Trailer Hitch**

When connecting the mower trailer to the towing vehicle, adjust the trailer hitch if the traction bar is not parallel to the ground.

The hitch can be adjusted to one of three heights. Remove the bolt securing the hitch, and then install the hitch at the height that fits the towing vehicle.

- Standard hitch installation
  The height from the ground to the trailer hitch is 299 mm (11.77 in).
Adjustment of Trailer Hitch_003

1. Traction bar
2. Hitch
3. Bolt
4. Washer
5. Spring washer
6. Nut

· High hitch installation
The height from the ground to the trailer hitch is 329 mm (12.95 in).

· Low hitch installation
The height from the ground to the trailer hitch is 270 mm (10.63 in).

High hitch installation
The height from the ground to the trailer hitch is 329 mm (12.95 in).

Low hitch installation
The height from the ground to the trailer hitch is 270 mm (10.63 in).

Note:
The factory default position is the standard hitch installation.

Adjustment of Drum Stopper

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

When a greens mower is loaded onto the mower trailer, adjust the gap between the drum and drum stopper if it is 4.5 mm (0.177 in) or more.
Operation of Each Section

Precautions for Operating the Machine

**Caution**

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

Cautions for When You Leave the Machine

**Caution**

Use wheel stoppers to secure the trailer.

Pedal

The pedal is used to release the connection between the greens mower stand stay and the pedal hooks of the mower trailer. To release the connection between the greens mower stand stay and the pedal hooks of the mower trailer, depress the pedal to set it to the "Release" position.
Axle Lock Lever

The axle lock lever secures the angle of the tilting tables. When loading the greens mower onto the mower trailer for towing, set the lever to the "Lock" position. When unloading the greens mower from the mower trailer, set the lever to the "Release" position.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Axle lock lever</td>
</tr>
<tr>
<td>A</td>
<td>Lock</td>
</tr>
<tr>
<td>B</td>
<td>Release</td>
</tr>
</tbody>
</table>

Drum Shaft Lock Lever

Note:
Depending on the specifications, this function may not be available.
The drum shaft lock lever prevents the greens mower from falling from the mower trailer. When loading the greens mower onto the mower trailer for towing, set the drum shaft lock lever to the "Lock" position. When unloading the greens mower from the mower trailer, set the drum shaft lock lever to the "Release" position.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mower tire lock lever</td>
</tr>
<tr>
<td>A</td>
<td>Lock</td>
</tr>
<tr>
<td>B</td>
<td>Release</td>
</tr>
</tbody>
</table>

Mower Tire Lock Lever

Note:
Depending on the specifications, this function may not be available.
The mower tire lock lever prevents the greens mower from falling from the mower trailer. When loading the greens mower onto the mower trailer for towing, set the mower tire lock lever to the "Lock" position. When unloading the greens mower from the mower trailer, set the mower tire lock lever to the "Release" position.

Travel of Machine

Traveling Procedure

1. Lift up the tilting tables.
2. Secure the axle with the axle lock lever.
3. Move the mower trailer by pulling the traction bar so that the tilting tables do not touch the ground.
Loading and Unloading

Loading procedure of Greens Mower

**Caution**
Before loading or unloading, chock the wheels of the mower trailer on a level surface in a safe location.

**Caution**
Be careful not to catch your foot on the mower trailer and fall.

**Caution**
Since the tilting tables may bounce up, make sure that there are no people around the machine.

1. Set the axle lock lever to the "Release" position, and then lower the tilting tables to the ground.
2. Place the greens mower facing backward towards the tilting tables.
3. Move the greens mower backward to load it onto the tilting tables of the mower trailer.
4. Insert the stand stay of the greens mower into the pedal hooks to secure it.
5. Set the axle lock lever to the "Lock" position.
6. Set the drum shaft lock lever or mower tire lock lever to the "Lock" position.
7. Set the fuel cock of the greens mower to the "Close" position.
Unloading Procedure of Greens Mower

Caution
Before loading or unloading, chock the wheels of the mower trailer on a level surface in a safe location.

Caution
Be careful not to catch your foot on the mower trailer and fall.

Caution
Make sure that there are no people around the machine.

Caution
When unloading the greens mower, be extremely careful as it may suddenly pull on your hand.

1. Set the drum shaft lock lever or mower tire lock lever to the "Release" position.
2. Set the axle lock lever to the "Release" position.
3. Depress the pedal to release the stand stay of the greens mower from the pedal hooks.
4. Bring the front roller into contact with the tilting tables, and then lower the tilting tables to the ground.
5. Move the greens mower forward to unload it from the mower trailer.

Towing

Precautions for Towing

Caution
When towing, travel at a speed no more than 24 km/h. Travel slowly over bad roads and uneven surfaces.

Caution
Make turns at a low speed. Making quick turns may cause the towing vehicle to roll over.

Caution
Since the towing vehicle and the mower trailer articulate at the hitch, a large turning radius difference occurs in curves. Be mindful of the risk of collisions caused by a turning radius difference.

Caution
Before traveling in reverse, make sure that there are no people behind you. Travel in reverse at low speed while carefully observing the movement of the trailer.

Towing Procedure

1. Make sure that the pedal hooks are secured onto the stand stay of the greens mower.
2. Make sure that the drum shaft lock lever or mower tire lock lever is set to the "Lock" position so that the greens mower will not fall.
3. Make sure that the axle lock lever is set to the "Lock" position so that the tilting tables do not touch the ground.
4. Make sure that the towing vehicle and mower trailer are securely connected.
5. Start moving the towing vehicle slowly, and then maintain the traveling speed.
Transporting

Transporting Procedure

Before loading into a truck or trailer for transporting, disconnect from the towing vehicle.

When using a running board:
When loading into a truck or trailer for transporting, pull the traction bar. When unloading, push the traction bar.

When using a pallet:
When using a truck or trailer for transporting, place the mower trailer on the pallet before loading or unloading it.
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Long-Term Storage .......................... Page 5-7
  Before Long-Term Storage .......... Page 5-7
Maintenance Precautions

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

Use tools appropriate for each maintenance operation.

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.
### Maintenance Schedule

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>When Required</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check tire pressures and condition</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Inspection of Tires&quot;</td>
</tr>
<tr>
<td>Check wear and damage of hitch</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Inspection of Hitch&quot;</td>
</tr>
<tr>
<td>Check wear and damage of pedal hook</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Inspection of Pedal Hook&quot;</td>
</tr>
<tr>
<td>Check wear and damage of stand stay</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Inspection of Stand Stay&quot;</td>
</tr>
<tr>
<td>Check damaged parts</td>
<td>○</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check tightening bolts and nuts</td>
<td>○</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricate all moving parts</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Lubricating Points&quot;</td>
</tr>
<tr>
<td>Adjustment of operating force of mower tire lock lever (loading method: mower tires)</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Adjustment of Mower Tire Lock Lever&quot;</td>
</tr>
<tr>
<td>Adjustment of operating force of drum shaft lock lever (loading method: mower drums)</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Adjustment of Drum Shaft Lock Lever&quot;</td>
</tr>
<tr>
<td>Adjustment of operating force of axle lock lever</td>
<td>○</td>
<td></td>
<td>Refer to &quot;Adjustment of Axle Lock Lever&quot;</td>
</tr>
</tbody>
</table>

- The values for consumables are not guaranteed.

### Specified value

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumatic pressure of tire</td>
<td>200 kPa (2.0 kgf/cm²)</td>
</tr>
<tr>
<td>Operating force of axle lock lever</td>
<td>15 - 30 N-m (153 - 306 kgf-cm)</td>
</tr>
<tr>
<td>Operating force of drum shaft lock lever</td>
<td>30 - 50 N-m (306 - 510 kgf-cm)</td>
</tr>
<tr>
<td>Operating force of mower tire lock lever</td>
<td>40 - 60 N-m (408 - 612 kgf-cm)</td>
</tr>
</tbody>
</table>
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

Lubricating Points (Mower Drums)

Note:
Depending on the specifications, this function may not be available.
Apply lubricant at the following locations as necessary.

1. Pedal fulcrum

2. Axle lock lever

3. Drum shaft lock lever
There is one point each on the left and right.

4. Axle coupling pin
Lubricating Points (Mower Tires)

Note:
Depending on the specifications, this function may not be available.
Apply lubricant at the following locations as necessary.

1. Pedal fulcrum

2. Axle lock lever

3. Mower tires lock lever
   There is one point each on the left and right.

4. Axle coupling pin
Removing/Installing Tires

Follow the steps below to remove the tires.

1. Remove the bolts.

2. While lifting the tire up, pull it toward you to remove it from the wheel mounting seat.

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

**Caution**

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

**Important**

Tighten the bolts in the tightening order (diagonally).

For installing the tires, reverse the removing procedure.

Adjustment of Axle Lock Lever

Adjust the axle lock lever so that it moves when pushed with a finger.

The operating force of the axle lock lever is 15 - 30 N-m (153 - 306 kgf-cm).

Adjust by tightening the nut.

Adjustment of Drum Shaft Lock Lever

Note:

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

Adjust the drum shaft lock lever so that it will not move by its own weight when lifted 90° from the "Lock" position, then released.

The operating force of the drum shaft lock lever is 30 - 50 N-m (306 - 510 kgf-cm).

Adjust by tightening the nut.
Adjustment of Mower Tire Lock Lever

Note:
Depending on the specifications, this function may not be available.
Adjust the mower tire lock lever so that it will not move by its own weight when moved 30° from the "Lock" position, then released.
The operating force of the mower tire lock lever is 40 - 60 N-m (408 - 612 kgf-cm).
Adjust by tightening the nut.

<table>
<thead>
<tr>
<th>1</th>
<th>Mower tire lock lever</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Nut</td>
</tr>
<tr>
<td>3</td>
<td>Lock nut</td>
</tr>
<tr>
<td>A</td>
<td>Lock</td>
</tr>
<tr>
<td>B</td>
<td>30-degree position</td>
</tr>
<tr>
<td>C</td>
<td>Release</td>
</tr>
</tbody>
</table>

Long-Term Storage

Before Long-Term Storage

- Completely remove dirt, grass clippings, debris, oil stains, etc.
- Supply oil and apply grease to appropriate parts.
- Lower the tilting tables to the ground.
- Unload the greens mower from the mower trailer.
- Before disconnecting from the towing vehicle, use wheel stoppers to secure the trailer.