"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.

Keeping the Owner's Operating Manual

Keep this Manual in the box on the hydraulic tank.
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.

Be sure to also read the operating manuals for the engine, battery, etc.

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.

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

**Warning Symbols**

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

<table>
<thead>
<tr>
<th>Warning symbol</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>This symbol indicates that serious injury or death will occur if the warning is ignored.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>This symbol indicates that serious injury or death may occur if the warning is ignored.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>This symbol indicates that injury or damage to property may occur if the warning is ignored.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>This symbol indicates precautions on the mechanism of the machine.</td>
</tr>
</tbody>
</table>
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. In addition, this machine is not authorized for operation as a special motor vehicle. 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**

The following instructions include the ones from CEN standard EN 836: 1997, ISO standard 5395: 1990, and ANSI B71.4-2004.

**Training**

1. Read this manual and other training material carefully. Be familiar with the controls, safety signs, and the proper use of the equipment.
2. If the operator or mechanic cannot read English, it is the owner’s responsibility to explain this manual to them.
3. All operators and mechanics should seek and obtain professional and practical instruction. The owner is responsible for training the users. Such instruction should emphasize:
   - The need for care and concentration when working with ride-on machines.
   - Control of a ride-on machine sliding on a slope will not be regained by the application of the brake. The main reasons for loss of control are:
     - Insufficient wheel grip
     - Being driven too fast
     - Inadequate braking
     - The type of machine is unsuitable for its task
     - Lack of awareness of the effect of ground conditions, especially slopes

**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. Exercise care in the handling of fuel.

**Warning**

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

[1] Store fuel in containers specifically designed for this purpose.
[2] Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
[3] Refuel outdoors only and do not smoke while refueling.
[4] If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapours have dissipated.
5. Check that operator's presence controls, safety switches and shields are attached and functioning properly. Do not operate unless they are functioning properly.
6. 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.
7. Replace faulty mufflers.
8. Before using, always visually inspect to see that the blades, blade bolts, and cutting assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
9. On multi-banded machines, take care as rotating one blade can cause other blades to rotate.

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. Only start engine from the operator's position. Use seat belts if provided.
4. Remember there is no such thing as a safe slope. Travel on grass slopes requires particular care. To guard against overturning:
   [1] Do not stop or start suddenly when going up or downhill.
   [5] Never operate across the face of the slope, unless the machine is designed for this purpose.

[6] Never drive the machine on a slope with an angle of gradient that is greater than that specified or in a place where there is a danger of the machine slipping.
5. Never raise deck with the blades running.
6. Never operate with the discharge deflector raised, removed or altered, unless using a grass catcher. Do not crawl under the machine while it is in operation.
7. Never operate with the discharge deflector raised, removed or altered, unless using a grass catcher.
8. Do not change the engine governor settings or overspeed the engine. Operating the engine at excessive speed may increase the hazard of personal injury.
9. Do the following before leaving the operator's position.

[1] Stop on level ground.
[2] Disengage the power take-off and lower the attachments.
[3] Change into neutral and set the parking brake.
[4] Stop the engine and remove the key.

10. Disengage the drive to attachments, stop the engine, and remove the ignition key in the following conditions.
   [2] Before removing the grass catcher/catchers;
   [3] Before making height adjustment unless adjustment can be made from the operator's position:
   [5] Before checking, cleaning or working the machine.
   [6] 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.

11. Keep hands and feet away from the cutting units and the rotating parts.
12. Look behind and down before backing up to be sure of a clear path.
13. Do not carry passengers.
14. Never operate while people, especially children, or pets are nearby.
15. Slow down and use caution when making turns and crossing roads and sidewalks.
16. Stop the blades rotating before crossing surfaces other than grass.
17. Disengage drive to attachments when transporting or not in use.
18. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
19. Do not operate the machine under the influence of alcohol or drugs.
20. 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.
21. Close the fuel valve before transporting the machine.
22. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
23. Do not take your eyes off the road ahead.
Do not operate the machine with no hands.
24. 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.

**Maintenance and storage**

1. Disengage drives on level ground, lower the attachments, set parking brake, stop engine and remove key from ignition.
Wait for all movement to stop before adjusting, cleaning or repairing.
2. When machine is to be parked, stored, or left unattended, lower the cutting units unless a positive mechanical lock is provided.
3. To reduce the fire hazard, keep the engine, silencer/muffler, battery compartment fuel storage area, cutting units and drives free of grass, leaves, or excessive grease.
Clean up oil or fuel spillage.
4. Allow the engine to cool before storing in any enclosure.
5. Only cover the machine with a sheet after hot parts have sufficiently cooled down.
6. Never store the equipment with fuel in the tank inside a building where fumes may reach an open flame or spark.
7. If the engine is provided with a shut-off valve, shut off valve while storing or transporting.
8. Do not store fuel near flames.
9. Never allow untrained personnel to service machine.
10. Allow the engine/muffler to cool before checking/maintenance.
11. Appropriately manage and correctly use the tools necessary for servicing or adjusting the machine.
12. Use jack stands to support components when required.
13. Carefully release pressure from components with stored energy.
14. Be sure to depressurize the hydraulic system before performing maintenance operations on it such as removing hydraulic equipment.
15. Check whether line connectors in the hydraulic system are properly tightened.
Before applying hydraulic pressure, check the connections of the hydraulic pressure lines and the condition of the hoses.
16. When checking the hydraulic circuit for pinhole leaks or oil leakage from nozzles, do not use your hands.
Use items such as paper or corrugated cardboard to find leakage points.
Be extremely careful with high-pressure oil as it may pierce your skin, result.
If fluid is injected into the skin it must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.
17. Disconnect battery before making any repairs.
Disconnect the negative terminal first and the positive last.
Reconnect positive first and negative last.
18. Make sure that parts such as wires are not touching each other and that their covers have not come off.

19. Use care when checking the blades.
   [1] Wrap the blades or wear gloves, and use caution when servicing them.
   [3] Never straighten or weld them.

20. Keep hands and feet away from moving parts.
    If possible, do not make adjustments with the engine running.

21. Charge batteries in an open well ventilated area, away from spark and flames.
    Unplug charger before connecting or disconnecting from battery.
    Wear protective clothing and use insulated tools.

22. Keep all parts in good working condition and all hardware tightened.
    Replace all worn or damaged decals.

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

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

25. If the fuel tank has to be drained, do this outdoors.
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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 batteries, rubber products, and wires etc.)
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<th>Specifications</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>GM1700</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td>Total length</td>
<td>255 cm</td>
</tr>
<tr>
<td>Total width</td>
<td>159 cm</td>
</tr>
<tr>
<td>Roof</td>
<td>197 cm</td>
</tr>
<tr>
<td>Handle</td>
<td>121 cm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>724 kg (with ROPS and empty fuel tank)</td>
</tr>
<tr>
<td><strong>Minimum turning radius</strong></td>
<td>298 cm</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Kubota D1105</td>
</tr>
<tr>
<td>Type</td>
<td>Vertical water-cooled 4-cycle diesel engine</td>
</tr>
<tr>
<td>Total displacement</td>
<td>1,123 cm³ (1.123 L)</td>
</tr>
<tr>
<td>Maximum output</td>
<td>17.8 kW (24.2 PS)/2,800 rpm</td>
</tr>
<tr>
<td><strong>Fuel tank capacity</strong></td>
<td>Diesel 23.0 dm³ (23.0 L)</td>
</tr>
<tr>
<td><strong>Fuel consumption</strong></td>
<td>280 g/kW.h (rated output)</td>
</tr>
<tr>
<td><strong>Quantity of engine oil</strong></td>
<td>3.0 dm³ (3.0 L)</td>
</tr>
<tr>
<td><strong>Operating width</strong></td>
<td>See the attachment's Operating Manual.</td>
</tr>
<tr>
<td><strong>Mowing height</strong></td>
<td>See the attachment's Operating Manual.</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td>Four-wheel drive</td>
</tr>
<tr>
<td><strong>Speed (HST)</strong></td>
<td></td>
</tr>
<tr>
<td>Forward</td>
<td>2WD: 0 - 16.0 km/h / 4WD: 0 - 8.0 km/h</td>
</tr>
<tr>
<td>Reverse</td>
<td>2WD: 0 - 14.0 km/h / 4WD: 0 - 7.0 km/h</td>
</tr>
<tr>
<td><strong>Speed (Mechanical)</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Efficiency</strong></td>
<td>See the attachment's Operating Manual.</td>
</tr>
<tr>
<td><strong>Maximum inclination for operation</strong></td>
<td>25 degrees</td>
</tr>
<tr>
<td><strong>Tire size</strong></td>
<td></td>
</tr>
<tr>
<td>Front wheel</td>
<td>21 x 11.00 - 10</td>
</tr>
<tr>
<td>Rear wheel</td>
<td>21 x 11.00 - 10</td>
</tr>
<tr>
<td><strong>Tire pneumatic pressure</strong></td>
<td></td>
</tr>
<tr>
<td>Front wheel</td>
<td>140 kPa (1.4 kgf/cm²)</td>
</tr>
<tr>
<td>Rear wheel</td>
<td>140 kPa (1.4 kgf/cm²)</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>80D26R</td>
</tr>
</tbody>
</table>

* The factory default maximum engine rpm is 2,800 rpm.
Sound pressure level

This machine was confirmed to have a continuous A-weighted sound pressure level of 93dB by measuring identical machines in accordance with the procedure specified in ISO 5395-1:2013.

Sound power level

This machine was confirmed to have a sound power level of 105dB by measuring identical machines in accordance with the procedure specified in directive 2000/14/EC.

Vibration level

Hand-arm vibration

This machine was confirmed to transmit a maximum vibration level of less than 2.5 m/s² to hands and arms by measuring identical machines in accordance with the procedure specified in ISO 5349-1:2001, ISO 5349-2:2001.

Whole body vibration

This machine was confirmed to transmit a maximum vibration level of 1.52 m/s² to the whole body by measuring identical machines in accordance with the procedure specified in ISO 2631-1:1997, ISO 2631-2:2003.
1. Hood
2. Steering wheel
3. Seat
4. 2WD/4WD selector lever
5. Fuel tank
6. Brake pedal
7. Front wheel
8. Knife rotation lever
9. Meter panel
10. Throttle lever
11. Forward pedal
12. Reverse pedal
13. Center cover
14. Rear wheel
15. Hydraulic tank
16. Rear cover
A. Serial number plate
B. Specification decal
C. Decal, noise emission
D. Year of manufacture decal
E. ROPS authentication decal
F. Battery specifications decal
Serial Number Plate

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

Specification Decal

The Specification decal indicates the CE logo, model name, and weight, etc.

Noise Emission Decal

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

The year of manufacture decal indicates the year when this machine was manufactured.

ROPS authentication decal

The ROPS authentication decal indicates the manufacturer, model, etc., in accordance with International Standard ISO 21299:2009.

Battery capacity decal

The battery capacity decal indicates the capacity by 20HR and CCA.
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_001](image1)

![Positions of Safety Decals and Instruction Decals_002](image2)

![Positions of Safety Decals and Instruction Decals_003](image3)

![Positions of Safety Decals and Instruction Decals_004](image4)

![Positions of Safety Decals and Instruction Decals_005](image5)
# Warning and Instruction Decals

<table>
<thead>
<tr>
<th>No.</th>
<th>Decal</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1   | ![Decal](image1).png | K4205001540  
Decal, caution to hot parts  

Caution  

High temperature - Do not touch. Otherwise, you will be burned. |
| 2   | ![Decal](image2).png | K4209001000  
Decal, diesel fuel refueling hole  

Use diesel fuel. |
| 3   | ![Decal](image3).png | K4205001940  
Decal, caution fire  

Danger  

Keep away from fire. |
| 4   | ![Decal](image4).png | Blank |
| 5   | ![Decal](image5).png | K4205002010  
Decal, caution handling  

1. Warning  

Read the Owner's Operating Manual.  

2. Warning  

Apply the parking brake, stop the engine, remove the ignition key, and then leave the machine.  

3. Warning  

Caution for exhaust gas  

4. Danger  

Flying objects - All persons other than the operator must keep a safe distance from the machine.  

5. Warning  

Caution for noise emission |
<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>K4205001920 Decal, caution to hot parts</td>
</tr>
<tr>
<td></td>
<td>High temperature - Do not touch. Otherwise, you will be burned.</td>
</tr>
<tr>
<td>7</td>
<td>K4209000980 Decal, hydraulic oil</td>
</tr>
<tr>
<td></td>
<td>Read the Owner's Operating Manual.</td>
</tr>
<tr>
<td>8</td>
<td>K4205001580 Decal, caution to injure</td>
</tr>
<tr>
<td></td>
<td>May pinch - There is a risk of being pinched.</td>
</tr>
<tr>
<td>9</td>
<td>K4205001970 Decal, caution for spouting coolant</td>
</tr>
<tr>
<td></td>
<td>Caution for coolant ejecting - Do not open while hot.</td>
</tr>
<tr>
<td>10</td>
<td>K4205001910 Decal, caution not to get caught in</td>
</tr>
<tr>
<td></td>
<td>Watch for rotating parts - Keep your hands away from the belts while the engine is running.</td>
</tr>
<tr>
<td>11</td>
<td>K4205002000 Decal, caution PTO</td>
</tr>
<tr>
<td></td>
<td>Watch for rotating parts - Keep your hands away from the joints while the engine is running.</td>
</tr>
<tr>
<td>12</td>
<td>K4205001710 Decal, caution to ROPS</td>
</tr>
<tr>
<td></td>
<td>Replace damaged ROPS.</td>
</tr>
<tr>
<td></td>
<td>Do not repair or modify. (Only when equipped with ROPS)</td>
</tr>
</tbody>
</table>
# Handling Instructions

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<td>Brake</td>
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<tr>
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<td>4-14</td>
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<td>Standard tightening torques</td>
<td>4-14</td>
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<tr>
<td>Principal tightening torques</td>
<td>4-16</td>
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<td>Adjustment of Steering Wheel</td>
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<td>4-17</td>
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<td>Knife Rotation Lever</td>
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<tr>
<td>2WD/4WD Selector Lever</td>
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<tr>
<td>Traveling Pedal</td>
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<tr>
<td>Brake Pedal</td>
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<tr>
<td>Parking Brake Lever</td>
<td>4-25</td>
</tr>
<tr>
<td>Hood</td>
<td>4-26</td>
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<tr>
<td>Rear Cover</td>
<td>4-26</td>
</tr>
<tr>
<td>Center Cover</td>
<td>4-27</td>
</tr>
<tr>
<td>Seatback Cover</td>
<td>4-27</td>
</tr>
<tr>
<td>Underseat Cover</td>
<td>4-28</td>
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<tr>
<td>Instruments</td>
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<td>Instruments on the Operation Panel</td>
<td>4-28</td>
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<tr>
<td>Tachometer/Hour Meter</td>
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<td>Water Temperature Gauge</td>
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<td>Pilot Lamps</td>
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<td>Angle Meter</td>
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<td>Travel of Machine</td>
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<td>Traveling Procedure</td>
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<td>Cutting Operation</td>
<td>4-31</td>
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<tr>
<td>Transporting</td>
<td>4-32</td>
</tr>
<tr>
<td>Transporting Procedure</td>
<td>4-32</td>
</tr>
</tbody>
</table>
Pre-installation Adjustments

Operating Attachments

For details on handling the attachment, please refer to the separate attachment's Operating Manual.

Installation of Universal Joint

1. Check the alignment point of the splines for connecting the universal joint.

2. Align the holes of the universal joint and gearbox, and then install it with the pin, washer and cotter pin.

Note:
For removing the universal joint, reverse the installation procedure.

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.

Hood

Inspection of Hood (Intake)

1. Make sure that there is no damage to the hood.
2. Make sure that the intake is not dirty.

Cleaning of Hood (Intake)

Important

An unclean hood intake may cause overheating or damage to the engine. It may also cause malfunction of the hydraulic system.

Important

While cleaning, do not allow water to get on the engine. This may cause damage to the engine.

If the intake has been contaminated with dust, be sure to clean it. After operating the machine in a dusty environment, it is important to remove dust as soon as possible.

1. Open the hood.
2. Carefully clean the inside and outside of the intake with water or compressed air.
Radiator

Inspection of Radiator

For details on handling the engine, please refer to the separate Engine Operating Manual.
1. Make sure that there is no damage to the radiator.
2. Make sure that the radiator is not contaminated.

Cleaning of Radiator

For details on handling the engine, please refer to the separate Engine Handling Manual.

Important

An unclean radiator may cause overheating or damage to the engine. It may also cause malfunction of the hydraulic system.

Important

While cleaning, do not allow water or dust to enter the air intake. This may cause damage to the engine.

Important

Do not use solid objects, such as a spatula or screwdriver, or high-pressure water to clean the radiator or oil cooler. Otherwise, special fins or tubes may be damaged, possibly resulting in reduced cooling performance or coolant leakage.

If the radiator has been contaminated with dust, be sure to clean it. After operating the machine in a dusty environment, it is important to remove dust as soon as possible.
1. Open the hood.
2. Pull the dust screen up to remove it.
3. Carefully clean the front and back of the dust screen and radiator with water or compressed air.
### Coolant

**Inspection of Coolant**

For details on handling the engine, please refer to the separate Engine Handling Manual.

**Warning**

Do not touch the radiator or coolant during engine operation or right after the engine has been turned off. Due to high temperatures, doing so could cause burns. After the radiator has well cooled down, open the radiator cap.

**Caution**

Supply coolant after the engine has well cooled down.

**Caution**

The radiator cap is pressurized. If you remove the radiator cap while the engine is overheated, hot steam will burst out, possibly resulting in burns. Make sure that the water temperature and pressure are reduced, and then grab the cap with a thick cloth and gradually open the cap.

**Important**

When you supply coolant, be sure to use clean water, such as tap water. During winter, remove coolant. Alternatively, mix long-life coolant and clean water, and then pour it into the radiator and reserve tank.

Relationship between concentration of long-life coolant (LLC) and freezing temperature

<table>
<thead>
<tr>
<th>Freezing temperature</th>
<th>LLC concentration (volume %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Down to -10°C (14°F)</td>
<td>20%</td>
</tr>
<tr>
<td>Down to -15°C (5°F)</td>
<td>30%</td>
</tr>
<tr>
<td>Down to -20°C (-4°F)</td>
<td>35%</td>
</tr>
<tr>
<td>Down to -25°C (-13°F)</td>
<td>40%</td>
</tr>
</tbody>
</table>

1. Make sure that the coolant level in the reserve tank is between "Full" and "Low."

![Reserve tank diagram](ckvlsx-001)
Coolant Supply

For details on handling the engine, please refer to the separate Engine Handling Manual.

**Warning**

Do not touch the radiator or coolant during engine operation or right after the engine has been turned off. Due to high temperatures, doing so could cause burns. After the radiator has well cooled down, open the radiator cap.

**Caution**

Supply coolant after the engine has well cooled down.

**Caution**

The radiator cap is pressurized. If you remove the radiator cap while the engine is overheated, hot steam will burst out, possibly resulting in burns. Make sure that the water temperature and pressure are reduced, and then grab the cap with a thick cloth and gradually open the cap.

**Important**

When you supply coolant, be sure to use clean water, such as tap water. During winter, remove coolant. Alternatively, mix long-life coolant and clean water, and then pour it into the radiator and reserve tank.

Relationship between concentration of long-life coolant (LLC) and freezing temperature

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<tr>
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<td>20%</td>
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<tr>
<td>Down to -15°C (5°F)</td>
<td>30%</td>
</tr>
<tr>
<td>Down to -20°C (-4°F)</td>
<td>35%</td>
</tr>
<tr>
<td>Down to -25°C (-13°F)</td>
<td>40%</td>
</tr>
</tbody>
</table>

1. If the coolant level in the reserve tank is lower than the "LOW" mark, open the reserve tank cap and fill the tank with clean water up to the "FULL" mark.

2. If no coolant is in the reserve tank, follow the steps below to fill the tank with clean water.

   [1] Open the radiator cap, and then supply clean water up to the opening.

   [2] Open the reserve tank cap, and then supply clean water up to the "FULL" mark.

---

1. Reserve tank
2. Radiator cap

---

1. Radiator cap
2. Radiator
Change of Coolant

For details on handling the engine, please refer to the separate Engine Handling Manual.

**Warning**

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

**Warning**

Do not touch the radiator or coolant during engine operation or right after the engine has been turned off. Due to high temperatures, doing so could cause burns. After the radiator has well cooled down, open the radiator cap.

**Caution**

Change coolant after the engine has well cooled down.

**Important**

When you change coolant, be sure to use clean water, such as tap water. During winter, remove coolant. Alternatively, mix long-life coolant and clean water, and then pour it into the radiator and reserve tank.

For details on changing coolant, please refer to the separate Engine Operating Manual. Coolant quantity, including the reserve tank, is approximately 6.0 dm³ (6.0 L).

**Hydraulic Oil**

**Inspection of Hydraulic Oil**

The oil gauge is on the side of the hydraulic tank.

1. Raise the mower units and maintain that position on a level surface.
2. Make sure that the oil level is at the middle of the oil gauge.

**Caution**

Change coolant after the engine has well cooled down.

**Important**

When you change coolant, be sure to use clean water, such as tap water. During winter, remove coolant. Alternatively, mix long-life coolant and clean water, and then pour it into the radiator and reserve tank.

For details on changing coolant, please refer to the separate Engine Operating Manual. Coolant quantity, including the reserve tank, is approximately 6.0 dm³ (6.0 L).
2. Securely close the tank cap.
3. Start the engine, raise and lower the mower units, and turn the steering wheel left and right. Move forward and reverse repeatedly several times.
4. Raise the mower units and maintain that position on a level surface, and then check to see if the oil level is at the middle of the oil gauge. If necessary, supply oil.
5. Check underneath the machine for oil leakage.

Change of Hydraulic Oil

**Warning**

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

**Caution**

If the oil emulsifies or if it becomes even slightly less transparent, change the oil immediately.

**Caution**

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

**Important**

Use Shell Tellus S2M46 (or equivalent) as hydraulic oil.

1. Follow the steps below to remove the old oil.
   [1] Start and run the engine to warm up the oil.
   [2] On a level surface, lower the mower units, and then stop the engine.
   [3] Remove the drain plug of the hydraulic tank, and then drain the old oil into a container.

3. Tighten the tank cap securely.
4. Start the engine, raise and lower the mower units, and turn the steering wheel left and right. Move forward and reverse repeatedly several times.
5. Raise the mower units and maintain that position on a level surface, and then check to see if the oil level is at the middle of the oil gauge. If necessary, supply oil.
6. Check underneath the machine for oil leakage.
Air Cleaner

Inspection of Air Cleaner

For details on handling the engine, please refer to the separate Engine Handling Manual.

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

For details on handling the engine, please refer to the separate Engine Handling Manual.

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

To maximize the life of the engine, clean the air cleaner properly.

1. Follow the steps below to clean the air cleaner.
   [1] Remove the clips from the two locations, and then remove the air cleaner cap.
   [3] While paying close attention not to damage the air cleaner element, tap a solid portion of the air cleaner element or blow compressed air from its inside to remove dust and dirt.
   [4] Attach the air cleaner element to the air cleaner body.
   [5] Re-place the air cleaner cap, and then fix it securely using the clips.

Change of Air Cleaner

For details on handling the engine, please refer to the separate Engine Operating Manual.

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.
   [3] Even if the hours of operation do not exceed the specified time, change it at least once per year.

2. Replace the air cleaner element in the same manner as cleaning the air cleaner.
   (See "Cleaning of Air Cleaner" (Page 4-8).)
Battery

Inspection of Battery

For details on handling the battery, please refer to the separate Battery Instruction Manual.

**Danger**

Keep fire away while inspecting or charging the battery. The battery may explode.

**Warning**

Do not allow the battery fluid level to become lower than the LOWER LEVEL (minimum fluid level line). The battery may explode if it is used or charged while the battery fluid level is at the LOWER LEVEL (minimum fluid level line).

1. Clean the areas around the battery fluid level lines using a cloth dampened with water.

2. Make sure that the battery fluid level is between the UPPER LEVEL (maximum fluid level line) and the LOWER LEVEL (minimum fluid level line).

Supply of Battery Fluid

For details on handling the battery, please refer to the separate Battery Instruction Manual.

**Danger**

Be careful not to let your skin, eyes or clothes, etc., come into contact with the battery fluid or accidentally swallow the fluid. Should your skin or clothes come into contact with the battery fluid, immediately wash them away with water.

**Warning**

When you supply battery fluid, wear protective garments and safety glasses, etc.

**Caution**

Implement after the engine and muffler etc. have well cooled down. Otherwise you may get burned.

1. If the battery fluid level is lower than halfway between the UPPER LEVEL (maximum line) and LOWER LEVEL (minimum line), add purified water up to the UPPER LEVEL (maximum line).
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>Front wheel</td>
<td>21 x 11.00 - 10</td>
</tr>
<tr>
<td>Rear wheel</td>
<td>21 x 11.00 - 10</td>
</tr>
</tbody>
</table>

Brake

Inspection of Brake

While traveling, depress the brake pedal firmly to make sure that the brake is applied effectively.

Inspection of Parking Brake

1. Make sure that the parking brake is applied after depressing the brake pedal and pulling the parking brake lever.
2. Make sure that the parking brake is not applied even slightly after depressing the brake pedal to release the parking brake lever.

Inspection of Knife Brake

Make sure that the rotary knife stops rotating within 7 seconds after the knife rotation lever is set from the "ON" position to the "OFF" position.

Belt

Inspection of Belt

1. Press the middle of the belt with your finger to check the belt tension.
2. Make sure that there are no cracks, damage or abnormal wear.

Important

A slacking or damaged belt or damaged fan may cause overheating or lack of a battery charge.

Around the Engine

Inspection of Engine-Associated Parts

For details on handling the engine, please refer to the separate Engine Operating Manual.

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 inside or around the muffler.
**Engine Oil**

**Inspection of Engine Oil**

For details on handling the engine, please refer to the separate Engine Handling Manual.

### Important

Securely tighten the oil level gauge and oil filler cap.

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 insert the oil gauge all the way to check the oil level.
3. The appropriate oil level should be between the upper and lower limit lines on the gauge.

### Supply of Engine Oil

For details on handling the engine, please refer to the separate Engine Handling Manual.

### Important

- Do not supply too much engine oil. Otherwise, the engine may be damaged.
- Do not mix different types of engine oil.
- Be sure to use engine oil that is classified as API Service Grade CF or higher, with an SAE Viscosity that is appropriate for the operating environment (ambient temperature).

### Important

Securely tighten the oil level gauge and oil filler cap.

1. If the engine oil level is lower than the lower limit line on the oil level gauge, supply engine oil through the oil filling port. Remove the oil filler cap, and then supply new engine oil until the oil reaches a level between the upper and lower limit lines on the oil level gauge.
2. Re-place the oil filler cap.

3. It will take a while for the supplied engine oil to descend into the oil pan. Check the oil level again 10 to 20 minutes after supplying the oil.
Change of Engine Oil

For details on handling the engine, please refer to the separate Engine Handling Manual.

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

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

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

**Important**
Securely tighten the oil level gauge and oil filler cap.

Change 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, remove the drain plug while the engine oil is warm, and then drain the oil into a bowl.
2. Re-place the drain plug in the engine.
3. Through the oil filling port, supply new engine oil until the oil reaches a level in between the upper and lower limit lines on the oil level gauge. Engine oil quantity is approximately 3.0 dm³ (3.0 L).
4. Re-place the oil filler cap.
5. It will take a while for the supplied engine oil to descend into the oil pan. Check the oil level again 10 to 20 minutes after supplying the oil.
Fuel

Inspection of Fuel Quantity

Position the machine so it is level, and then observe the fuel gauge located on the fuel tank to check the fuel level.

![Fuel Gauge Diagram]

<table>
<thead>
<tr>
<th>1</th>
<th>Fuel tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Tank cap</td>
</tr>
<tr>
<td>3</td>
<td>Fuel gauge</td>
</tr>
</tbody>
</table>

Oil Leakage

Inspection of Oil Leakage

⚠️ Caution
When performing maintenance on the hydraulic system, lower the mower units.

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

Fuel Supply

⚠️ Danger
Do not supply fuel above F (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.

⚠️ Warning
Keep fire away while refueling. Do not smoke while refueling.

If the fuel gauge located on the fuel tank indicates a level close to E (EMPTY), supply fuel (diesel) at your earliest convenience. The fuel tank capacity is approximately 23.0 dm³ (23.0 L).
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>
<th>lb3yb-001</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N-m</td>
<td>kgf-cm</td>
<td>lb-in</td>
</tr>
<tr>
<td>M5</td>
<td>3 - 5</td>
<td>30.59 - 50.99</td>
<td>26.55 - 44.26</td>
</tr>
<tr>
<td>M6</td>
<td>7 - 9</td>
<td>71.38 - 91.77</td>
<td>61.96 - 79.66</td>
</tr>
<tr>
<td>M8</td>
<td>14 - 19</td>
<td>142.76 - 193.74</td>
<td>123.91 - 168.17</td>
</tr>
<tr>
<td>M10</td>
<td>29 - 38</td>
<td>296.71 - 387.49</td>
<td>256.68 - 336.34</td>
</tr>
<tr>
<td>M12</td>
<td>52 - 67</td>
<td>530.24 - 683.20</td>
<td>460.25 - 593.02</td>
</tr>
<tr>
<td>M14</td>
<td>70 - 94</td>
<td>713.79 - 958.52</td>
<td>619.57 - 831.99</td>
</tr>
<tr>
<td>M16</td>
<td>88 - 112</td>
<td>897.34 - 1142.06</td>
<td>778.89 - 991.31</td>
</tr>
<tr>
<td>M18</td>
<td>116 - 144</td>
<td>1,182.85 - 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 - 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>2,611.05</td>
</tr>
<tr>
<td>M24</td>
<td>370</td>
<td>3,772.89</td>
<td>3,274.87</td>
</tr>
<tr>
<td>M27</td>
<td>550</td>
<td>5,608.35</td>
<td>4,868.05</td>
</tr>
<tr>
<td>M30</td>
<td>740</td>
<td>7,545.78</td>
<td>6,549.74</td>
</tr>
</tbody>
</table>
### Handling Instructions

#### Tightening torques

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>Heat-treated bolt</th>
<th>Strength classification 8.8</th>
<th>Strength classification 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5</td>
<td>N-m</td>
<td>kgf-cm</td>
<td>lb-in</td>
</tr>
<tr>
<td>5 - 7</td>
<td>50.99 - 71.38</td>
<td>44.26 - 61.96</td>
<td>7 - 10</td>
</tr>
<tr>
<td>M6</td>
<td>81.58 - 112.17</td>
<td>70.81 - 97.36</td>
<td>14 - 18</td>
</tr>
<tr>
<td>M8</td>
<td>234.53 - 295.71</td>
<td>203.57 - 256.68</td>
<td>28 - 38</td>
</tr>
<tr>
<td>M10</td>
<td>458.87 - 581.23</td>
<td>398.30 - 504.51</td>
<td>58 - 76</td>
</tr>
<tr>
<td>M12</td>
<td>683.20 - 866.75</td>
<td>593.02 - 752.34</td>
<td>104 - 134</td>
</tr>
<tr>
<td>M14</td>
<td>1,080.88 - 1,366.40</td>
<td>938.21 - 1,186.03</td>
<td>140 - 188</td>
</tr>
<tr>
<td>M16</td>
<td>1,549.94 - 1,917.04</td>
<td>1,345.35 - 1,663.99</td>
<td>210 - 260</td>
</tr>
<tr>
<td>M18</td>
<td>2,039.40 - 2,447.28</td>
<td>1,770.20 - 2,124.24</td>
<td>280 - 340</td>
</tr>
<tr>
<td>M20</td>
<td>2,498.27 - 3,008.12</td>
<td>2,168.50 - 2,611.05</td>
<td>370 - 450</td>
</tr>
<tr>
<td>M22</td>
<td>-</td>
<td>-</td>
<td>530</td>
</tr>
<tr>
<td>M24</td>
<td>-</td>
<td>-</td>
<td>670</td>
</tr>
<tr>
<td>M27</td>
<td>-</td>
<td>-</td>
<td>1,000</td>
</tr>
<tr>
<td>M30</td>
<td>-</td>
<td>-</td>
<td>1,340</td>
</tr>
</tbody>
</table>

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

Tightening Torque by Model

GM1700_Main body

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 anaerobic adhesives).

<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>Front wheel</td>
<td></td>
<td>Wheel mounting base</td>
<td>K0138240002</td>
<td>24 slotted nut high P1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wheel</td>
<td>K0011120302</td>
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<td></td>
<td>Tie rod end left ass’y slotted nut</td>
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Adjustment of Seat

1. Use the adjustment lever to adjust the seat back and forth. Adjust the position according to the operator's body size. The adjustment lever is located beneath the front part of the seat.

2. Grip the adjustment lever and swing the seat to the left and right to adjust it to one of five positions. Use this to adjust the position while operating on contours. The adjustment lever is located at the top of the fuel tank.
Procedure to Start / Stop Engine

Start / Stop of Engine

Procedure to Start Engine

**Warning**

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

**Important**

Starter operation must take 15 seconds or less.

If the engine does not start, stop using the battery for 30 to 60 seconds to avoid exhausting the battery.

1. Open the fuel cock.

2. Sit on the seat.

3. Make sure that you have depressed the brake pedal and applied the parking brake lever.

4. Set the knife rotation lever to the "OFF" position.

5. Make sure that the traveling pedal is in the neutral position.

6. Shift the throttle lever halfway from the turtle icon (low speed) to the rabbit icon (high speed) position.

7. Switch the ignition key to the "GLOW" position.

8. Make sure that the glow plug is generating heat and the thermo-start lamp is turned on.

**Important**

The thermo-start lamp turns off at the specified time. However, the lamp turning off is not related to the glow plug generating heat. If the ignition key is left in the "GLOW" position after the lamp is turned off, the plug will still generate heat. The lamp will stay illuminated for five seconds.
Quickly returning the ignition key from the "START" position to the "ON" position may result in damage to the machine.

9. After the thermo-start lamp turns off, immediately set the ignition key to the "START" position.
10. When the starter starts rotating and the engine starts, return the ignition key to the "ON" position slowly.
11. Make sure that the charge lamp and engine oil pressure lamp turn off. If they do not turn off, stop the engine and inspect the machine.
12. Engage the throttle lever to the turtle icon (low speed), and then warm up the engine for 1-2 minutes.
13. Gradually move the throttle lever to the rabbit icon (high speed).

Procedure to Stop Engine

1. Set the traveling pedal to the neutral position.
2. Depress the brake pedal, and then apply the parking brake lever.
3. Set the knife rotation lever to the "OFF" position.
4. Shift the throttle lever to the turtle icon (low speed), and then idle the machine for 1-2 minutes.
5. Switch the ignition key to the "OFF" position.
6. Make sure that the engine has stopped.
7. Remove the ignition key.
8. Leave the driver's seat.
9. Close the fuel cock.

Safety Mechanisms

This machine features a safety device for starting/stopping the engine.
1. As for starting the engine, the safety device prevents the engine from starting unless it meets each of the following four conditions.
   - An operator is sitting on the seat.
   - The parking brake is applied.
   - The knife rotation lever is set to the "OFF" position.

2. The safety device will be activated and will stop the engine under any of the following conditions:
   - The operator leaves the seat without applying the parking brake.
   - The operator leaves the seat while the knife is rotating.
   - The traveling pedal is operated while the parking brake is applied and the operator is away from the seat.

Warning Mechanisms

This machine features a warning mechanism for overheating.
1. If water temperature inside the engine exceeds 105 degrees Celsius, a buzzer will sound. (intermittent tone)
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
If the brakes are not sufficiently effective, use the wheel stoppers to secure the machine.

Instruction Decals

1 Knife rotation/stop icons
2 Engine speed icons
3 Mower unit up/down icons
4 Key switch icons
5 Sticker, parking brake
6 Decal, lever tilt steering

7 Decal, lever changing 2WD/4WD
1. Knife rotation/stop icons
   These indicate positions for rotating and stopping the rotary knife.
   1. Rotate
   2. Stop

2. Engine speed icons
   These indicate positions for low and high engine speeds.
   1. Low speed
   2. High speed

3. Mower unit up/down icons
   These indicate positions for raising and lowering the mower unit.
   1. Raised
   2. Neutral
   3. Lowered

4. Key switch icons
   These indicate the key switch positions.
   1. OFF
   2. ON
   3. GLOW
   4. START
| 5 | K4203001340  
Sticker, parking brake  
This shows how to lock and release the parking brake.  
1. Locked  
2. Released |
|---|---|
| 6 | K4203001500  
Decal, lever tilt steering  
This shows the steering tilt directions and how to lock and release the position. |
| 7 | K4203001510  
Decal, lever changing 2WD/4WD  
This shows 2WD/4WD selection. |
**Throttle Lever**

The throttle lever is located in the operation panel and enables you to adjust the engine rpm.

Move the throttle lever toward the rabbit icon (high speed) to increase the engine rpm, and toward the turtle icon (low speed) to reduce the rpm.

Note:

The factory default engine rpm (maximum) is set to 2,800 rpm.

---

**Mower Unit Up/Down Switch**

**Caution**

Before raising or lowering the mower units, make sure that there are no people around the machine.

The mower unit up/down lever is located in the operation panel and raises or lowers the mower units.

When the lever is shifted to the "DOWN" position, the mower units are lowered. When the lever is shifted to the "UP" position, the mower units are raised.

Release the switch to return it to the neutral position.

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

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<table>
<thead>
<tr>
<th>1</th>
<th>Mower unit up/down switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Raise</td>
</tr>
<tr>
<td>B</td>
<td>Neutral</td>
</tr>
<tr>
<td>C</td>
<td>Lower</td>
</tr>
</tbody>
</table>
**Knife Rotation Lever**

⚠️ **Caution**

Just before you start cutting work, set the knife rotation lever to the "ON" position. At all other times, make sure it is set to the "OFF" position.

The knife rotation lever is located in the operation panel and controls the rotation of the rotary knives. When the knife rotation lever is set to the "ON" position, all rotary knives rotate. When the knife rotation lever is set to the "OFF" position, all rotary knives stop. When the mower units are raised, the rotary knives rotate if the lever is set to the "ON" position.

---

**2WD/4WD Selector Lever**

⚠️ **Caution**

When working on a slope, be sure to use the machine in 4WD.

When traveling, be sure to stop the rotation of the knives and raise the mower units.

The 2WD/4WD selector lever is located to the left of the driver's seat. When the 2WD/4WD selector lever is set to the "2WD" position, the machine will be in two-wheel drive (rear-wheel drive). When it is set to the "4WD" position, the machine will be in four-wheel drive.
Traveling Pedal

⚠️ Warning
This machine is not authorized as a special motor vehicle. Do not drive it on public roads.

⚠️ Caution
When the machine is traveling at a high speed, it will not stop immediately after you take your foot off the traveling pedal. If necessary, also use the brake.

The traveling pedals are located in the right foot area and control forward and reverse operation of the machine.
When the forward pedal (inside) is depressed, the machine travels forward. When the reverse pedal (outside) is depressed, the machine travels in reverse.
The speed changes in accordance with how much the pedal is depressed.
When you take your foot off the pedal, the machine stops automatically.

Brake Pedal

The brake pedal is located in the left foot area. To stop the machine, depress the brake pedal all the way firmly.

Caution
Be sure to release the parking brake before driving. It may result in the brakes or hydraulic system malfunction.

Caution
Never park the machine on a slope.

The parking brake lever is located to the left of the front cover.
To park the machine, depress the brake pedal and pull the parking brake lever completely. To release the parking brake, depress the brake pedals.
Hood

**Caution**
Do not open the hood in strong winds.

**Caution**
Be careful not to pinch your fingers when you open or close the hood.

1. Remove the bolt and nut.
2. Unlock the rubber catch, and then lift up the hood.

3. Lift the hood and check that the hood support rod is secured effectively. Make sure that the hood will not close, and then remove your hands.

4. To close the hood, release the hood support rod, and then lower the hood slowly.
5. Lock the rubber catch securely.
6. Install the bolt and nut.

Rear Cover

**Caution**
Be careful not to pinch your fingers when you open or close the cover.

1. Bring the seat to the most front position.
2. Remove the bolt on both sides of the rear cover.

3. Remove the rear cover.
**Center Cover**

**Caution**
Be careful not to pinch your fingers when you open or close the cover.

1. Bring the seat to the backmost position.
2. Completely raise the steering wheel.
3. Remove the bolt on both sides of the center cover.
4. Remove the center cover.

**Seatback Cover**

Note:
Follow the same steps to remove the left and right seatback covers.

1. Bring the seat to the frontmost position.
2. Remove the rear cover.
3. Remove the grommet.
   
   **Note:**
   The wire is removed together with the grommet.

4. Swing the seat to tilt it.
   
   **Note:**
   Tilt the seat so that the cover to be removed is facing down.

5. Remove the bolts mounting the seatback cover.
6. Remove the seatback cover.
Caution

Be careful not to pinch your fingers when you open or close the underseat cover.

Note:
Follow the same steps to remove the left and right underseat covers.
1. Remove the rear cover.
2. Remove the seatback cover.
3. Swing the seat to tilt it.
4. Remove the bolts mounting the underseat cover.
5. Remove the underseat cover.

Instruments

Instruments on the Operation Panel

1. Water temperature gauge
2. Angle meter
3. Tachometer/Hour meter
4. Pilot lamps (charge lamp, thermo-start lamp, oil pressure lamp)

Tachometer/Hour Meter

The tachometer and hour meter are located in the operation panel. The tachometer indicates the engine rpm. The hour meter indicates total operation time of the engine. Every six minutes of engine operation will increase the number at the first digit (black number on a white background) by one. Every one hour of engine operation will increase the number at the next digit (white number on a black background) by one.
Water Temperature Gauge

The water temperature gauge is located in the operation panel. This instrument indicates the water temperature inside the engine. If the water temperature gauge indicates a level close to "H" during operation, the machine is overheated. Remove the load from the engine, idle the machine for five minutes, stop the engine, and then inspect the machine and perform any necessary maintenance. If the water temperature exceeds 105 degrees Celsius, a buzzer will sound. (Intermittent tone)
**Pilot Lamps**

**Charge Lamp**

The charge lamp is the left pilot lamp located in the operation panel. It turns on when the ignition key is set to the "ON" position before the engine starts. It turns off when the engine starts and the alternator starts operating properly. If this lamp illuminates while you are operating the machine, stop the engine immediately, and then inspect the machine and perform any necessary maintenance.

![Charge Lamp](Charge_Lamp_001)

**Thermo-start Lamp**

The thermo-start lamp is the middle pilot lamp located in the operation panel. When the ignition key is set to the "GLOW" position, it illuminates as the glow plug generates heat. Illumination of the thermo-start lamp is controlled by the glow lamp timer, and the lamp is turned off after a specified amount of time passes. The duration of illumination indicates an approximate period of time required for warm-up, and has been fixed at five seconds.

![Thermo-start Lamp](Thermo-start_Lamp_001)

**Oil Pressure Lamp**

The oil pressure lamp is the right pilot lamp located in the operation panel. It turns on when the ignition key is set to the "ON" position before the engine starts. It turns off when the engine starts and engine oil pressure is generated properly. If this lamp illuminates while you are operating the machine, stop the engine immediately, and then inspect the machine and perform any necessary maintenance.

![Oil Pressure Lamp](Oil_Pressure_Lamp_001)

**Angle Meter**

The angle meter is located in the operation panel. This instrument indicates the angle of the machine position.

![Angle Meter](Angle_Meter_001)
Travel of Machine

Traveling Procedure

1. Start the engine. (See "Procedure to Start Engine" (Page 4-18) .)
2. Raise the mower units.
3. Depress the brake pedal to release the parking brake.
4. Slowly depress the traveling pedal.
5. The machine will start to move.

Towing the Machine

If the machine does not travel due to engine trouble, etc., you can move it by towing it.

**Caution**

Do not touch the unload valve except when towing the machine.

**Caution**

Do not turn the unload valve more than one rotation.

**Caution**

Before restarting the engine, be sure to close the unload valve.

1. Stop the engine. (See "Procedure to Stop Engine" (Page 4-19))
2. Apply the parking brake and chock the wheels.
3. Set the 2WD/4WD selector lever to the "2WD" position.
4. Remove the underseat cover on the right side.
5. Turn either of the unload valves by one rotation to loosen it.

Cutting Work

Cutting Operation

**Warning**

Do NOT start to move or stop the machine abruptly.
To do so is very dangerous. In addition, it may damage the hydraulic system or result in oil leakage.

**Caution**

Cutting work must be performed at an appropriate speed for the site and location.
When cutting bumpy surfaces, keep the engine rpm steady, and slow down the cutting speed.

1. Start the engine. (See "Procedure to Start Engine" (Page 4-18))
2. Shift the mower unit up/down switch to the "UP" position to raise the mower units.
3. Depress the brake pedal to release the parking brake.
4. Shift the throttle lever to the rabbit icon (high speed) to run the engine at the maximum rpm.
5. Shift the mower unit up/down switch to the "DOWN" position to lower the mower units.
6. Slowly set the knife rotation lever to the "ON" position to rotate all rotary knives.
7. Depress the traveling pedal to start cutting work.

Note:
While operating on a slope, adjust the angle of the seat for better comfort.
Transporting

Transporting Procedure

When loading the machine into a trailer or a truck to transport it, drive the machine forward. When unloading, drive the machine in reverse. If the roof is installed on the machine, remove it. The roof may be damaged by wind pressure.
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Maintenance Precautions

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

Caution
Use tools appropriate for each maintenance operation.

Caution
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

**GM1700**

Follow the maintenance schedule below.

- 
  - Inspect, adjust, supply, clean
- 
  - Replace (first time)
- 
  - Replace

## Maintenance Schedule Table

<table>
<thead>
<tr>
<th>Maintenance item</th>
<th>Before work</th>
<th>After work</th>
<th>Every 8 hrs.</th>
<th>Every 50 hrs.</th>
<th>Every 100 hrs.</th>
<th>Every 200 hrs.</th>
<th>Every 250 hrs.</th>
<th>Every 400 hrs.</th>
<th>Every 500 hrs.</th>
<th>Every year</th>
<th>Every 2 years</th>
<th>Every 4 years</th>
<th>Remarks</th>
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<tr>
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<td>100 hrs.</td>
</tr>
</tbody>
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<tbody>
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<tr>
<td>Transmission oil</td>
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<tr>
<td>Hydraulic hose (moving part)</td>
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<td>Hydraulic hose (fixed part)</td>
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<td>Air cleaner</td>
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<td>Fuel strainer</td>
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<td>Fuel pipe</td>
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<tr>
<td>Cleaning the exterior</td>
<td>○</td>
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<tr>
<td>Tightening the parts</td>
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<tr>
<td>Greasing, oiling</td>
<td>○</td>
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<tr>
<td>Tire (cutting height gauge wheel)</td>
<td>○</td>
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<td>V-belt</td>
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<td>Cover</td>
<td>○</td>
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<tr>
<td>Grease (gearbox)</td>
<td>○</td>
<td></td>
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<tr>
<td>Cleaning the exterior</td>
<td>○</td>
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</tr>
</tbody>
</table>

See "Replacement of Air Cleaner".

For the maintenance schedule of the items unlisted above, refer to the Owner's Manual for the engine. The values for consumables are not guaranteed. Replace the steering cylinder hoses every 2 years.
### Specified Values

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank capacity</td>
<td>Approximately 23.0 dm³ (23.0 L)</td>
<td></td>
</tr>
<tr>
<td>Transmission oil capacity</td>
<td>0.45 dm³ (0.45 L)</td>
<td>Transmission gear oil #90</td>
</tr>
<tr>
<td>Hydraulic tank capacity</td>
<td>Approximately 22.0 dm³ (22.0 L)</td>
<td>Shell Tellus S2M46 or equivalent</td>
</tr>
<tr>
<td>Quantity of engine oil</td>
<td>Approximately 3.0 dm³ (3.0 L)</td>
<td>Summer: SAE30, Winter: SAE20</td>
</tr>
<tr>
<td>Coolant volume</td>
<td>Approximately 6.0 dm³ (6.0 L)</td>
<td>Including reserve tank</td>
</tr>
<tr>
<td>Front tire</td>
<td>140 kPa (1.4 kgf/cm²)</td>
<td>21 x 11.00 - 10</td>
</tr>
<tr>
<td>Rear tire</td>
<td>140 kPa (1.4 kgf/cm²)</td>
<td>21 x 11.00 - 10</td>
</tr>
<tr>
<td>Tension spring</td>
<td>40.0 mm</td>
<td>Total length of spring (with knife rotation lever in &quot;ON&quot; position)</td>
</tr>
<tr>
<td>Tension return spring</td>
<td>50.0 mm</td>
<td>Total length of spring (with knife rotation lever in &quot;OFF&quot; position)</td>
</tr>
</tbody>
</table>

### Main Consumable Parts

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan belt</td>
<td>PF1G345-9701-0</td>
</tr>
<tr>
<td>Oil element</td>
<td>PF16271-3209-3</td>
</tr>
<tr>
<td>Air cleaner element</td>
<td>PFT0270-1632-0</td>
</tr>
<tr>
<td>Fuel filter element</td>
<td>PF1G313-4301-1</td>
</tr>
<tr>
<td>Hydraulic cartridge filter</td>
<td>K3412000050</td>
</tr>
<tr>
<td>Hydraulic oil (20 L can)</td>
<td>K2913100200</td>
</tr>
<tr>
<td>Brake wire, left</td>
<td>K1120182500</td>
</tr>
<tr>
<td>Brake wire, right</td>
<td>K1120199500</td>
</tr>
<tr>
<td>Throttle wire</td>
<td>K1110063000</td>
</tr>
<tr>
<td>Tension wire</td>
<td>K1140231500</td>
</tr>
<tr>
<td>Brake shoe, front right</td>
<td>P741-8005-00</td>
</tr>
<tr>
<td>Brake shoe, rear right</td>
<td>P741-8007-00</td>
</tr>
<tr>
<td>Brake shoe, front left</td>
<td>P741-8006-00</td>
</tr>
<tr>
<td>Brake shoe, rear left</td>
<td>P741-8008-00</td>
</tr>
<tr>
<td>Shoe COMP (knife)</td>
<td>GM1700-6104Z0</td>
</tr>
<tr>
<td>V-belt GLB37AG-6A (tension)</td>
<td>K2346037000</td>
</tr>
</tbody>
</table>
Jacking up the machine

About the Jacking up the machine

**Warning**

When replacing a tire or beginning any other maintenance or repairs, be sure to chock the wheels to prevent the machine from moving. Before jacking up the machine, park it on a hard, flat surface such as a concrete floor and remove any obstacles that could prevent you from performing the work safely. When necessary, use an appropriate chain block, hoist, or jack. Support the machine securely with jack stands or appropriate blocks. Failure to do so may cause the machine to move or fall, resulting in injury or death.

Use the jack-up points identified in this manual when jacking up the machine. Only place a jack under the jack-up points specified. Placing a jack at any other point could result in damage to the frame or other parts.

**Jack-up Points**

<table>
<thead>
<tr>
<th>Jack-up Points</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front right frame</td>
</tr>
<tr>
<td>2</td>
<td>Front left frame</td>
</tr>
<tr>
<td>3</td>
<td>Center of pivot</td>
</tr>
<tr>
<td>4</td>
<td>Rear right frame</td>
</tr>
<tr>
<td>5</td>
<td>Rear left frame</td>
</tr>
</tbody>
</table>

1. Front right frame

![Jack-up Points_002](image1)

2. Front left frame

![Jack-up Points_003](image2)

3. Center of pivot

![Jack-up Points_004](image3)
4. Rear right frame

5. Rear left frame
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.
Add grease every 50 hours of operation.

<table>
<thead>
<tr>
<th>Location</th>
<th>No. of Greasing Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pivot</td>
<td>3</td>
</tr>
<tr>
<td>2 Knife rotation lever fulcrum</td>
<td>1</td>
</tr>
<tr>
<td>3 Brake pedal shaft fulcrum</td>
<td>1</td>
</tr>
<tr>
<td>4 Chain wheel mounting shaft fulcrum</td>
<td>2</td>
</tr>
<tr>
<td>5 Traveling pedal shaft fulcrum</td>
<td>2</td>
</tr>
<tr>
<td>6 Brake lever shaft</td>
<td>2</td>
</tr>
<tr>
<td>7 Joint fulcrum</td>
<td>2</td>
</tr>
<tr>
<td>8 Joint connector</td>
<td>1</td>
</tr>
<tr>
<td>9 Tension shaft fulcrum</td>
<td>1</td>
</tr>
<tr>
<td>10 Cam lever shaft fulcrum</td>
<td>1</td>
</tr>
<tr>
<td>11 Seat mounting bracket</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Pivot

Jack up the machine and apply grease.
Middle between the front wheels

Front right wheel
4. Chain wheel mounting shaft fulcrum
   One greasing point is provided to each of the right and left chain wheel mounting shaft fulcrums.

2. Knife rotation lever fulcrum

3. Brake pedal shaft fulcrum

5. Traveling pedal shaft fulcrum
   Forward pedal
   Reverse pedal
6. Brake lever shaft
   One greasing point is provided to each of the right and left brake lever shafts.

7. Joint fulcrum
   One greasing point is provided to each of the two fulcrums of the joint.

8. Joint connector

9. Tension shaft fulcrum

10. Cam lever shaft fulcrum

11. Seat mounting bracket
Removing/Installing Tires

Front Tires

Follow the steps below to remove the front tires:
1. Loosen the bolts.

2. Securely place the jack beneath the jack-up point of the front left/right frame area, and then raise it until the tire lifts off the ground. (See "Jack-up Points" (Page 5-6).)
3. Remove the bolts.
4. Remove the tire from the wheel mounting seat.

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 front tires, reverse the removing procedure.

Rear Tires

Follow the steps below to remove the rear tires:
1. Loosen the bolts.

2. Securely place the jack beneath the jack-up point of the rear frame area, and then raise it until the tire lifts off the ground. (See "Jack-up Points" (Page 5-6).)
3. Remove the bolts.
4. Remove the tire from the wheel mounting seat.

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 rear tires, reverse the removing procedure.
Adjustment of Belt Tension

**Caution**
Be sure to stop the engine before adjusting the belts.

**Important**
Make sure that the belt has the specified amount of tension.

If the belt becomes slack due to frequent use, it may jump or slip.
In addition, if it is overtightened, it may wear prematurely.
If necessary, adjust it, and always check the belt for appropriate tension.

**Fan Belt**

**Caution**
Be sure to stop the engine before adjusting the belts.

For details on handling the engine, please refer to the separate Engine Operating Manual.
1. Press the middle of the belt with your finger to check the belt tension.
2. If the belt is too slack, loosen bolts A and B (that affix the alternator), then move the alternator to adjust the tension.

Knife Tension Belt

**Caution**
Be sure to stop the engine before adjusting the belts.

1. Remove the rear cover.
2. Set the knife rotation lever to the "ON" and "OFF" positions, and check the following points.
   - The tension lever operates correctly.
   - The spring stretches appropriately.
3. Set the knife rotation lever to the "ON" position, and then press the middle of the belt with your finger to check the belt tension.
4. If the belt is too slack, adjust it by tightening the tension wire adjustment bolt. Adjust it so that the springs are adjusted as follows.

- **Tension spring**
  Set the knife rotation lever to the "ON" position, and then adjust so that the total length of the tension spring is 40.0 mm.

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<table>
<thead>
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<tbody>
<tr>
<td>1</td>
<td>Tension spring</td>
</tr>
<tr>
<td>a</td>
<td>40.0 mm</td>
</tr>
</tbody>
</table>

• **Tension return spring**

**Important**

Make sure that the shoe of the knife brake is not worn. If the brake shoe is worn, replace it.

**Important**

After adjusting the knife brake, adjust the tension return spring.

Set the knife rotation lever to the "OFF" position, and then adjust so that the total length of the tension return spring is 50.0 mm.

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<table>
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<tr>
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<tbody>
<tr>
<td>1</td>
<td>Brake wire</td>
</tr>
<tr>
<td>2</td>
<td>Adjustment bolt</td>
</tr>
<tr>
<td>3</td>
<td>Brake lever</td>
</tr>
</tbody>
</table>

**Adjustment of Brake**

**Danger**

If the brake wire is cut, the machine will be unable to stop. This would be extremely dangerous.
If the brake wire is cracked or damaged, replace it with a new one immediately.
If the brake is not sufficiently effective, adjust the brake wire.

**Important**

Adjust to reduce the play in the brake lever as much as possible so that the brake does not drag when the lever is released.

1. Adjust the foot brake by tightening the brake wire adjustment bolt.
   • If there is too much play in the brake lever, the braking power is reduced and the brake pedal feel is light.
   • If there is too little play in the brake lever, the braking power is increased and the brake pedal feel is heavy.

2. Start the engine and drive to check the following.
   • Make sure that heat is not generated in the brake area.
   • Make sure that the left and right brakes are equally effective.
**Danger**

It would be extremely dangerous and may result in an unexpected accident if the left and right brakes are not equally effective.

3. If the left and right brakes are not equally effective, make fine adjustments with the adjustment bolt on the brake wire.

**Break-in of Brakes**

If the brake shoes or brake pads are worn, replace them with new ones. Immediately after replacement, drive to break in the brakes if the effectiveness of the brakes is low. While driving, lightly operate the brakes to break in the contact areas.

**Adjustment of Knife Brake**

1. Remove the rear cover.
2. Make sure that the knife rotation lever is set to the "OFF" position.
3. Loosen the bolts mounting the brake shoe.

4. Move the brake shoe flush against the inside of the pulley drum.

   **Note:**
   Adjust the brake shoe so that knife rotation is fully stopped.

   ![Adjustment of Knife Brake](wt6ous-001)

5. Tighten the bolt mounting the brake shoe.
6. Adjust the knife tension return spring.

**Adjusting the Neutral Position of the Piston Pump**

**Caution**

Make sure not to touch rotating tires.

If the machine moves forward or backward while the traveling pedals are released, they are not set to the neutral position. Follow the steps below to make adjustments.

1. Stop the engine.
2. Place the jacks beneath the jack-up points, and then lift the machine off the ground. Use stable jack stands, and raise the machine until the tires lift off the ground. (See "Jack-up Points" (Page 5-6).)
3. Remove the seatback cover on the right side.
4. Remove the underseat cover on the right side.
5. Start the engine, and rev it up to the maximum rpm.
6. Set the 2WD/4WD selector switch to the "4WD" position.
7. Adjust the neutral position for the rear wheels.
   [1] If the rear tires rotate forward, loosen the cam lever shaft, and then adjust lock nuts A to move the shaft seat backward. Find the position where the rear wheels stop, and then tighten the cam lever shaft to secure it.
   [2] If the rear tires rotate in reverse, loosen the cam lever shaft, and then adjust lock nuts A to move the shaft seat forward. Find the position where the rear wheels stop, and then tighten the cam lever shaft to secure it.

8. Adjust the neutral position for the front wheels.
   [1] If the front tires rotate forward, loosen lock nuts B of the threaded rod, then turn the threaded rod to shorten the connection. Find the position where the front wheels stop, and then tighten lock nuts B.

   [2] If the front tires rotate in reverse, loosen lock nuts B of the threaded rod, then turn the threaded rod to extend the connection. Find the position where the front wheels stop, and then tighten lock nuts B.

---

**Change of Hydraulic Oil Filter**

1. Remove the filter guard mounting bolt, and then remove the filter guard.

2. Replace the hydraulic oil filter.
Change of Transmission Oil

**Warning**
When you change the transmission oil, be sure to drain it into a bowl and discard it in accordance with regional laws and regulations.

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

**Important**
Be sure to pour automobile gear oil that is classified as SAE Viscosity Grade #90 into the transmission.

1. Change the entire transmission oil after 50 hours of operation for the first time, and then change it every year.
   Transmission oil quantity is $0.45 \text{ dm}^3 (0.45 \text{ L})$.

2. Make sure that oil does not bleed from mating areas of the gear box.
3. Check underneath the machine for oil leakage.
Change of Fuse

Fuse Box

**Warning**

Before performing maintenance on the electrical system, be sure to disconnect the negative terminal of the battery.

**Caution**

If a fuse is blown, the electrical circuit may be shorted. Check to identify the cause, such as a bad terminal connection, damaged wiring or terminals, or incorrect wiring.

The fuse box includes spare fuses and tools.

<table>
<thead>
<tr>
<th>A</th>
<th>5A</th>
<th>Timer (glow signal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>5A</td>
<td>Glow lamp</td>
</tr>
<tr>
<td>C</td>
<td>5A</td>
<td>Fuel pump</td>
</tr>
<tr>
<td>D</td>
<td>5A</td>
<td>Water temperature gauge, charge lamp, oil pressure (engine oil pressure) lamp, water temperature buzzer</td>
</tr>
<tr>
<td>E</td>
<td>15A</td>
<td>Electromagnetic valve</td>
</tr>
<tr>
<td>F</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>G</td>
<td>5A</td>
<td>Timer (start signal)</td>
</tr>
<tr>
<td>H</td>
<td>5A</td>
<td>Alternator</td>
</tr>
<tr>
<td>I</td>
<td>5A</td>
<td>Fuel SOL relay</td>
</tr>
<tr>
<td>J</td>
<td>5A</td>
<td>Starter relay, Delay timer, Sitting detection relay, Neutral detection relay</td>
</tr>
<tr>
<td>K</td>
<td>5A</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>5A</td>
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</tr>
<tr>
<td>M</td>
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<td>Spare</td>
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<tr>
<td>N</td>
<td>15A</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Tool</td>
<td></td>
</tr>
</tbody>
</table>

Fusible Link

Fuse capacity of the fusible link is described below.
- Engine stop solenoid: 30 A
- Battery: 50 A

**Long-Term Storage**

**Before Long-Term Storage**

- Remove dirt, grass clippings, debris, oil stains etc. completely.
- Supply oil and apply grease to appropriate parts.
- Remove the battery.
EU Declaration of Conformity

Identification du produit
Produit : Tondeuse à gazon
Fabriquant : BARONESS
Type : GM1700

Conforme aux directives suivantes :
- 2006/42/CE Équipement de plein air
- 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 :

Fiche technique
Marque : BARONESS
Adresse de la marque : 1-26 Miyuki-cho, Toyokawa, Aichi, Japon

Procédures d’évaluation de la conformité
- Contrôle de production interne : module A (2006/42/CE)
- Examen de type CE : module B (2014/30/UE)

Organisme notifié impliqué (2000/14/CE)
Nom : SNCH
Adresse : 11, Route de Sandweiler 5230 Sandweiler, Luxembourg
Declaración de conformidad de la UE

Identificación del producto
Producto: Cortacésped
Marca: BARONESS
Tipo: GM1700
Versión: No aplicable
N.º de serie inicial: 20328
Nivel de potencia sonora medido: LWA 103.74 dB
Nivel de potencia sonora garantizado: LWA 105 dB
Fabricante Nombre: Kyoeisha Co., Ltd.
Dirección: 1-26 Miyuki-cho, Toyokawa, Aichi-pref., Japón

Cumple las siguientes Directivas
- 2006/42/CE Maquinaria (MD)
- 2000/14/CE Emisiones sonoras de máquinas de uso al aire libre

Se ha diseñado y fabricado utilizando las siguientes especificaciones

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 Grewey 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/UE)

Organismo notificado implicado (2000/14/UE)
Nombre: SNCH
Dirección: 11, Route de Sandweiler 5230 Sandweiler Luxemburgo
Certificado/informe núm.: SNCH*2000/14*2005/88*2401*01/TCGM1700-01

EU-Konformitätserklärung

Produktbeschreibung
Produkt: Rasenmäher
Marke: BARONESS
Modell: GM1700
Startseriennummer: Nicht zutreffend
Gemessener Schalleistungspegel: LWA 103.74 dB
Garantieter Schalleistungspegel: LWA 105 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/EU Elektromagnetische Verträglichkeit (EMV)
- 2000/14/EG Geräuschemission von im Freien betriebenen Geräten

Unter Anwendung der folgenden Bestimmungen entwickelt und hergestellt
- 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: Kyoeisha U.K. Ltd.
Adresse: Unit 5 Hatch Industrial Park Grewey Road, Basingstoke Hampshire RG24 7NG, Großbritannien

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

Beteiligte benannte Stelle (2000/14/EG)
Name: SNCH
Adresse: 11, Route de Sandweiler 5230 Sandweiler Luxemburg
Bescheinigung/Bericht Nr.: SNCH*2000/14*2005/88*2401*01/TCGM1700-01
EU-försäkran om överensstämmelse

Produktidentifikation
Produkt: Gräsklippare
Märke: BARONESS
Typ: GM1700
Version(er): Ej aktuellt
Serienummer startar på: 20328
Uppmätta ljudnivå: LWA 103.74 dB
Garanterad ljudnivå: LWA 105 dB
Tillverkare
Namn: 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 Bullerremsission från utomhusutrustning

Följande kravspecifikationer har följts vid konstruktion och tillverkning
ISO 12100 : 2010 (2006/42/EG)
ISO 5395-1 : 2013 (2006/42/EG)
ISO 5395-3 : 2013 (2006/42/EG)
ISO 14982 1998 (2014/30/EU)

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

Anmält organ (2000/14/EG)
Namn: SNCH
Adress: 11, Route de Sandweiler 5230 Sandweiler Luxembourg
Certifikatnummer/rapportnummer: SNCH*2000/14*2005/88*2401*01/TCGM1700-01