"Required reading" Read this manual and the owner's manual for the engine before using the machine.
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**Caution**

- **Warning**
- **Danger**
- **Caution**
- **Note**
- **Attention**

---
Introduction

Thank you for purchasing the Baroness GM2800A, front 5-deck rotary mower. This manual describes the correct methods for handling, adjusting, and checking the machine. Be sure to read this manual and make sure that you understand its contents thoroughly before using the machine.

Our machines have been tested and inspected thoroughly before shipment from the factory. However, whether the machine can display its original performance depends on the handling method, as well as daily checks, adjustments, and lubrication before and after operation. Keep the machine well maintained to expect safe operation and excellent performance for an extended period of time.

Note

- Gradual changes may be made to the machine.
- When making enquiries about the machine, be sure to specify both the model type and serial number.
- The information described in this manual may change without prior notice.

Caution

- The warning labels that are attached to the machine and used in this owner's manual contain information to maintain safety. Please read the operating procedures and safety precautions carefully and only operate the machine after you have understood them completely.
- The warning labels and their descriptions should be preserved in their entirety. If they are lost or damaged, please replace them immediately with new ones.
- Do not, under any circumstances, remove the warning labels that are attached to the machine.

Safety

Read this manual carefully to thoroughly understand the proper operating and maintenance methods of your mower, and to avoid causing injury to yourself and to others. The operator is responsible for operating this machine properly and safely.

For questions concerning maintenance or genuine parts, please contact your local Baroness dealer. When making inquiries about your mower, please specify the mower’s model number and serial number.

Safety management

The following instructions are taken from CEN standard EN 836:1997, ISO standard 5395:1990.

Intended uses

Use the mower for the purpose it is intended for, that is cutting grass on lawns. Any other use could be dangerous or damage the equipment.
1. Training

- Read the Operator's Manual and other training material carefully. Be familiar with the controls and safety indications and learn how to stop the mower in an emergency.
- If the operator cannot understand the manual, it is the owner's responsibility to thoroughly explain the contents of this Operator's Manual.
- Never allow children to operate or service the mower. Never allow adults that are unfamiliar with the instructions to operate or service the mower. Follow the age limit specified by your country or local government.
- Never mow while people, especially children, or pets are nearby.
- Keep in mind that the owner, operator, or mechanic is responsible for preventing accidents, and accidents can be abolished with the cooperation of all.
- Never carry passengers other than the operator.
- All operators and mechanics should receive proper training. The owner is responsible for training the operators and the following must be thoroughly understood:
  - The basic safety precautions for operating ride-on mowers
  - Controlling the mower by applying the brake when it begins to slide on a slope is difficult. The main reasons it is impossible to control the mower on a slope are:
    * Insufficient tire grip
    * Driving too fast
    * Inadequate braking
    * Using a model inadequate for the job
    * Lack of awareness of the ground conditions (bumpy, icy, muddy)

2. Preparation

- Use clothing and equipment that are suitable for the job. Wear a helmet, safety glasses, and ear protectors. Long hair, loose clothing, or jewelry can get tangled in moving parts. Do not operate the mower when barefoot or wearing sandals.
- Thoroughly check that the area where the mower is to be used is free of objects that can be thrown by the mower such as rocks, toys, and wire before starting.
- Do not operate the mower under the influence of alcohol or drugs.
- Warning: Fuel is highly flammable. Take the following precautions:
  - Store fuel in containers specifically designed for this purpose.
  - Refuel outdoors only and do not smoke while refueling.
  - Refuel before mowing. Do not remove the fuel tank cap when the engine is running or when the engine is hot.
  - If fuel is spilled, do not start the engine. Move the machine away from the area where the fuel was spilled and avoid creating any source of ignition until the spilled fuel has completely dissipated.
  - Close the fuel tank and fuel container cap securely.
- Repair any sensors that are malfunctioning before operating the mower.
- Check that the seat switch and safety switch, and the safety guards and covers are installed correctly and that they function properly. Repair these parts if there is a malfunction before operating the mower.
3. Precautions during operation

- Do not start the engine in a closed space since there is a danger of carbon monoxide poisoning.
- Operate the mower during the day or in an area with sufficient lighting.
- Before starting the engine, disengage all equipment, place the gearshift into neutral, and set the parking brake.
- Remember that there is no such thing as a safe slope. Operating on grassy slopes requires particular care. To avoid overturning:
  - Do not stop or start suddenly on any slope.
  - Reduce speed when operating on slopes and when making sharp turns.
  - Always stay alert for bumps, hollows, and other hidden obstacles.
  - Never mow across the surface of the slope unless the mower is designed to do so.
  - If noted in the Operator's Manual, use a counterbalance or wheel balance.
- Never neglect the warnings for hidden hollows or obstacles.
- Watch out for other traffic when crossing or near a road.
- Stop the rotation of the blade when operating on surfaces other than grass.
- When using attachments, never direct the discharge at bystanders or allow anyone near the mower while it is operating.
- Do not operate the mower with damaged guards or with guards not installed properly.
- Do not remove the interlock device, and be sure to use it when it is adjusted properly.
- Do not change the engine governor setting or operate the engine at high engine speeds. Otherwise, an accident resulting in injury or death, or a malfunction can occur.
- Before leaving the operator's position:
  - Move the mower to a level surface.
  - Disconnect the power take-off (PTO) and lower the attachments.
  - Place the gearshift into neutral and set the parking brake.
  - Reduce the engine speed.
  - Stop the engine and remove the key.

Note
After operating with a heavy load, let the engine idle for 5 minutes before turning the engine off. If the engine is not allowed to idle, a malfunction can occur with the turbo charge.

4. Maintenance and storage

- Disengage the drive to each attachment except when mowing.
- Stop the engine, disengage the drive to each attachment, and remove the key under the following conditions:
  - Before refueling
  - Before removing the grass catcher
  - Before adjusting the blade height (except when the adjustment can be made from the operator's seat)
  - Before removing blockages
  - Before checking, cleaning, or servicing the mower
  - After striking a foreign object or an abnormal vibration occurs while mowing
- When turning the engine off, close the throttle, and close the fuel valve if your model is equipped with one.
- Keep hands and feet away from the cutting units.
- Before backing up, look down and behind you to check that the path is clear and you can back up safely. Have someone guide you if it is difficult to check the area behind you.
- Reduce speed when turning or crossing roads or sidewalks, and proceed by taking extreme caution with your surroundings. Also, be sure to stop the rotation of the blade.
- Take care when loading or unloading the mower onto a trailer or truck.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure your vision.

- Check that all nuts, bolts, and screws are properly tightened to ensure that the mower is always working under safe conditions.
- Empty the fuel tank and keep the mower away from ignition sources when storing the mower indoors where sparks and open flames are used.
- Let the engine cool down before storing the mower in a closed space.
- To prevent a fire, keep the engine, muffler, and battery areas free of excessive grease, grass, leaves, and dust.
- Check the grass catcher frequently for preventing wear or damage.
To use the Baroness mower safely

The following precautions should always be followed to operate the Baroness mower safely.

Warnings for Safety

Warning symbols have been attached to this machine to ensure that you can operate it safely.
The warning symbols indicate items which are particularly important for your safety. It is important to always follow the warnings and operate the machine with safety.

Warning symbols

- • • • This symbol indicates that serious injury or death will occur if the warning is ignored.
- • • • This symbol indicates that serious injury or death could occur if the warning is ignored.
- • • • This symbol indicates that an injury or damage to property may occur if the caution is ignored.

- Refer to the Operator's manual.
- Danger symbol (Cutting of finger)
- Caution symbol (Entanglement)
- Danger symbol (Danger-flammables)
- Warning symbol (High-pressure oil)
- Caution symbol (Pinch)
- Danger symbol (Flying objects)
- Warning symbol (Overturn, fall)
- Caution symbol (V-belt/rotating parts)
- Danger symbol (Cutting of hand or foot)
- Warning symbol (Caution-exhaust gas)
- Caution symbol (Hot surface)
- Fuel (No.2 Diesel fuel only)

Keep all parts of the mower in good working condition and all fasteners and hydraulic fittings tightened.

If the fuel tank needs to be cleaned, clean it outdoors.

Take care not to pinch your fingers while making adjustments to the mower.

For mowers equipped with multiple blades, take care as rotating one blade can cause other blades to rotate.

Before servicing or adjusting the mower, stop the mower, stop the cutting units, set the parking brake, turn the engine off, and remove the key (for gasoline engines, disconnect the spark plug lead). Be sure to check that each part has completely stopped operating before servicing or adjusting the mower.

To prevent a fire, keep the cutting units, drives, exhaust pipes, and muffler areas free of excessive grease, grass, leaves, and dust. Clean up any spilled oil or fuel.

When necessary, use a jack to securely support the mower.

Take care when removing equipment that may have applied spring pressure.

When servicing the mower, disconnect the battery and the spark plug lead. To disconnect the battery, disconnect the negative battery cable first, then the positive battery cable. To connect the battery, connect the positive battery cable first.

When checking the blades, wear gloves or wrap the blades in thick cloth to avoid an injury.

Keep hands and feet away from moving parts. If possible, avoid making any adjustments while the engine is running.

Charge the battery in a well ventilated area, away from sparks and flames. Unplug the battery charger before connecting it to the battery. Also, wear protective clothing and use insulated tools.

When storing the mower, lower the cutting units or set the latch on the outermost deck (wing deck) so that the unit cannot lower.
Please be sure to observe for safe operation.

The precautions that are described here are the important contents concerning safety. Be sure to follow these safety precautions.

* Failure to follow these precautions can cause injury or death, or damage to the machine.
  * The information described in this manual may vary from the actual machine purchased.

1. General precautions

**Warning**

Do not operate the machine under the following conditions!

- If you cannot concentrate while operating the machine due to fatigue or illness, or if you are under the influence of medication
- After drinking alcohol
- If pregnant
- If less than 18 years old

* Failure to observe these precautions can cause an unexpected accident.

Wear suitable clothes when operating the machine.

Do not wear a towel around your head or waist, or a scarf around your neck. Wear safety glasses, a helmet, and slip resistant shoes. Use protective gear suitable for the working conditions and do not wear loose-fitting clothes.

* Failure to observe this precaution may cause you to get caught in the machine or to slip and fall.

When lending the machine to others

Thoroughly explain the operating procedures and have them read the "owner's manual" before use.

* Failure to follow this precaution can cause an accident, resulting in severe injury or death, or damage the machine.

**Caution**

Warm the engine up when it is cold.

When the engine is cold, be sure to warm it up.

* Failure to follow this precaution may not allow the machine to sufficiently demonstrate its performance capability.

Take precaution with a hot muffler/exhaust pipe.

Do not touch the muffler/exhaust pipe while operating the machine or just after the engine is turned off since it will be hot.

* Failure to follow this precaution can cause burns.

Do not modify the machine.

Do not modify the machine.

* Failure to follow this precaution can cause an accident or injury, or the machine to malfunction.

Inspection and maintenance

Be sure to perform checks and maintenance before and after operating the machine.

* Failure to follow this precaution can cause an accident or injury, or the machine to malfunction.

Performing the periodic checks and maintenance

Perform the periodic checks and maintenance every year, and maintain each part. Be sure to change the power steering hose every two years and to check the electrical wires every year.

* Failure to follow this precaution can cause an accident or the machine to malfunction due to improper maintenance.
3. Inspection and maintenance before and after operating the machine

- **Add oil and refuel when the engine is cold.**
  - Do not add oil or refuel when the engine is operating or if the engine is hot.
  - Failure to follow this precaution can cause the fuel to ignite and cause a fire.

- **Fire is strictly prohibited when refueling**
  - Do not smoke or use open flames when refueling.
  - Failure to follow this precaution can cause the fuel to ignite and cause a fire.

- **Fire is strictly prohibited when checking the battery**
  - Fire is strictly prohibited when checking or charging the battery.
  - Failure to follow this precaution can cause the battery to ignite and explode, which can cause burns.

- **Do not let electrolyte get on your skin.**
  - Do not let electrolyte get on your skin or on your clothes. If it gets on your skin or clothes, immediately wash the affected area with water.
  - Failure to follow this precaution can cause burns or damage to your clothes.

- **Take precaution with fuel leaks.**
  - If the fuel pipe is damaged, check the fuel pipe for fuel leaks.
  - Failure to follow this precaution can cause fuel to ignite and cause a fire.

- **Close the fuel cap and clean up any spilt fuel.**
  - After refueling, be sure to securely close the fuel cap and thoroughly clean up any spilt fuel.
  - Failure to follow this precaution can cause a fire.

- **Install and remove the battery by following the correct procedure.**
  - To install the battery, connect the positive (+) battery cable first. To remove the battery, disconnect the negative (-) battery cable first.
  - Failure to follow this precaution can cause a short circuit, which can cause burns and a fire.

- **Perform inspect and maintenance on a flat and stable place.**
  - Set lower the mower unit and inspect and maintenance on a flat and stable place on which the machine will not overturn or move.
  - Failure to follow this precaution can cause the machine to overturn and cause an unexpected accident.

- **Remove debris from the muffler and engine.**
  - Check that there is no grass, debris, or fuel around the muffler and engine or on the brakes every day before operating the machine.
  - Failure to follow this precaution can cause a fire.

- **Do not fill the tires with air over the specified maximum air pressure.**
  - When filling the tires with air, do not fill the tires over the specified maximum air pressure.
  - Failure to follow this precaution can cause the tires to explode and cause an injury.

- **Be sure to check the electrical parts and wires.**
  - Check if the electrical wires are touching other parts, if the cover is disconnected, or if the connector is loose every day before operating the machine.
  - Failure to follow this precaution can cause a short circuit, which can cause a fire.

- **Do not allow the electrolyte to go below the “LOWER” level mark.**
  - Check the electrolyte between the “UPPER” and “LOWER” level marks and that it is not below the “LOWER” level marks.
  - Failure to follow this precaution can cause the pole connector in the container to be exposed from the electrolyte if it is below the “LOWER” level mark, which can cause sparks when starting the engine, and the gas in the container to ignite, causing an explosion.

- **Take sufficient precaution with exhaust gas.**
  - Do not start the engine in an enclosed area. Start the engine outdoors with sufficient air circulation. If you have to start the engine indoors, make sure there is sufficient ventilation.
  - Failure to follow this precaution can cause you to be poisoned by the exhaust gas, which can result in death.

- **Warning**
  - Perform inspect and maintenance on a flat and stable place.
  - Set lower the mower unit and inspect and maintenance on a flat and stable place on which the machine will not overturn or move.
  - Failure to follow this precaution can cause the machine to overturn and cause an unexpected accident.

- **Fire is strictly prohibited when checking the battery**
  - Fire is strictly prohibited when checking or charging the battery.
  - Failure to follow this precaution can cause the battery to ignite and explode, which can cause burns.

- **Do not fill the tires with air over the specified maximum air pressure.**
  - When filling the tires with air, do not fill the tires over the specified maximum air pressure.
  - Failure to follow this precaution can cause the tires to explode and cause an injury.

- **Be sure to check the electrical parts and wires.**
  - Check if the electrical wires are touching other parts, if the cover is disconnected, or if the connector is loose every day before operating the machine.
  - Failure to follow this precaution can cause a short circuit, which can cause a fire.

- **Do not allow the electrolyte to go below the “LOWER” level mark.**
  - Check the electrolyte between the “UPPER” and “LOWER” level marks and that it is not below the “LOWER” level marks.
  - Failure to follow this precaution can cause the pole connector in the container to be exposed from the electrolyte if it is below the “LOWER” level mark, which can cause sparks when starting the engine, and the gas in the container to ignite, causing an explosion.

- **Take sufficient precaution with exhaust gas.**
  - Do not start the engine in an enclosed area. Start the engine outdoors with sufficient air circulation. If you have to start the engine indoors, make sure there is sufficient ventilation.
  - Failure to follow this precaution can cause you to be poisoned by the exhaust gas, which can result in death.
Be sure to check the parking brake lever.
Check that the brake operation is not faulty and that the parking brake lever is not remarkably loose nor does it have remarkable play.
* Failure to follow this precaution can cause an accident.

Take precaution with high-pressure oil.
Always check if the fittings and hoses are loose or damaged. When disconnecting the fittings and hoses, release the pressure in the hydraulic circuit.
* Failure to follow this precaution can cause the high-pressure oil to break through your skin and cause an injury.

Caution

Turn the engine off while inspection and maintenance.
Be sure to turn the engine off while inspection, servicing, repairing, or cleaning the machine.
* Failure to follow this precaution can cause you to be pinned under the machine or a personal injury.

Be sure to install the covers.
Be sure to install any covers that were removed while inspection and maintenance.
* Failure to follow this precaution can cause you to get caught up in the machine or a personal injury.

Let overheated parts sufficiently cool down before inspection and maintenance.
Let the parts that overheat such as the muffler and engine to sufficiently cool down before inspection and maintenance.
* Failure to follow this precaution can cause burns.

Correctly use the proper tools for the job.
Properly manage and correctly use the proper tools necessary for inspection and maintenance.
* Failure to follow this precaution can cause an accident due to improper maintenance.

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4. When transporting the machine

Warning

Do not operate quick start and stop on a running board.
Take sufficient precaution when operating on slopes or running boards.
* Failure to follow this precaution can cause an accident such as fall or overturn.

Use a running board with sufficient strength, length, and width.
When loading or unloading the machine onto a truck, be sure to turn the engine of the truck off on a flat surface that is safe from traffic, set the parking brake to avoid moving, and chock the wheels. The running board should be non-skid and bear sufficient strength, length, and width.
* Failure to follow these precautions can cause an accident such as fall or overturn.

When the machine is loading / unloading on the truck.
When the machine is loading onto a truck, it move forward, when the machine is unloading, it move backward.
* Failure to follow this precaution can cause you to loose your balance and cause an accident such as causing the machine to fall or overturn.

Securely fasten the machine to the truck with a rope.
When loading the machine onto a truck and moving it, set the parking brake and fasten the machine to the truck with a rope that has sufficient strength.
* Failure to follow this precaution can cause the machine to fall from the deck of the truck and cause an accident.
5. When moving and taking the machine on or off a field

- **Caution**
  - Set the parking brake while warming the engine up.
    * Failure to follow this precaution can cause the machine to move spontaneously and cause an accident.
  - When operating at high speeds, do not operate the brake pedal suddenly.
    * Failure to follow this precaution can cause the machine to overturn or fall.

- **Warning**
  - Do not operate the machine on public roads.
    This machine is not authorized as a special motorized vehicle. Do not operate it on public roads.
    * Failure to follow this precaution is subject to punishment for violating the traffic laws.
  - Check your surroundings for safety and slowly accelerate.
    Start the engine after checking your surroundings for safety. Accelerate slowly, and do not start quickly.
    * Failure to follow this precaution can cause a personal injury.
  - Take precaution with the shoulder of the road when moving.
    On roads with ditches or on roads where both sides are inclined, take sufficient precaution with the shoulder of the road.
    * Failure to follow the precaution can cause the machine to fall.
  - Do not start, stop, or turn suddenly, or operate at excessive speeds.
    Start and stop slowly. When turning, sufficiently reduce your speed. Also, sufficiently reduce your speed when operating on slopes, bumpy roads, or curves.
    * Failure to follow this precaution can cause the machine to overturn or fall, causing damage to the machine.
  - Use a running board to cross ditches.
    When entering a field, crossing ditches, or traveling over a soft area, be sure to use a running board. Use non-skid running board bearing sufficient strength, length, and width.
    * Failure to follow this precaution can cause the machine to have an accident by slipping or overturning.

6. When operating the machine

- **Warning**
  - Do not substitute weight for people or cargo.
    Do not load people or cargo as a substitute for weight.
    * Failure to follow this precaution can cause an injury.
  - Wear protective gear.
    Be sure to wear safety glasses, a helmet, and slip resistant shoes.
    * Failure to follow this precaution can cause an injury.
  - Do not go or place your feet under the operating machine.
    Do not go or place your feet under the operating machine.
    * Failure to follow this precaution can cause a personal injury when the operating machine is lowered.
  - Before operating, remove obstacles in the field such as rocks, wire, rope, etc.
    Failure to follow this precaution can cause an accident or injury, or the machine to malfunction.
  - Do not start, stop, or turn suddenly, or operate at excessive speeds.
    Start and stop slowly. When turning, sufficiently reduce your speed.
    * Failure to follow this precaution can cause the machine to overturn or fall, causing damage to the machine.
  - Operate or work on a slope with extreme care.
    The balance of the machine worsens on slopes and bumps. Be sure to decrease your speed sufficiently and operate and work slowly.
    * Failure to follow this precaution can cause the machine to overturn or fall, causing damage to the machine.
  - Be sure to turn the engine off when inspecting the mower.
    When a malfunction of the rotary blade occurs such as jamming the grass or rocks, be sure to turn the engine off to inspect and make adjustments.
    * Failure to follow this precaution can cause you to get caught up in the machine.
  - Do not operate the machine near children.
    Keep away from children and do not operate the machine near them.
    * Failure to follow this precaution can cause a personal injury.
Inspect and perform maintenance immediately if unusual vibration occurs.
If unusual vibration occurs, stop the engine immediately, then inspect the cause and repair it if necessary.
* Failure to follow this precaution can cause an accident or injury, or the machine to malfunction.

Keep bystanders away from grass discharge area.
Grass, dust, sand and rocks will fly out.
* Failure to follow this precaution can cause a personal injury.

Do not look aside. Do not operate or travel with no hands.
* Failure to follow this precaution can cause a personal injury or material damage.

When leave from the machine.
Stay the machine at flat and stable place, then turn the engine off, set the parking brake, lower the mower unit, and remove key from ignition switch.
* Failure to follow this precaution can cause the machine to move spontaneously and cause an accident.

Do not carry passengers.
The riding capacity of this machine is one person. Do not carry passengers.
* Failure to follow this precaution can cause an unexpected accident.

[IMPORTANT]
After operating long time or heavy load, take idle running time for about 5 minutes before stopping the engine.
* If it is not performed, trouble may occur in the turbocharger.

Precautions for operating on slopes
When operating on a slope, the ground will not be even and there may be bumps and rocks, which can cause the machine to incline suddenly. Therefore, do not operate the machine on a slope of 15 degrees or more, or in areas in which there is danger of it overturning or slipping.

7. After operating the machine and storage

Add oil and refuel when the engine is cold.
Do not add oil or refuel when the engine is operating or if the engine is hot.
* Failure to follow this precaution can cause the fuel to ignite and cause a fire.

Do not open the radiator cap when the radiator is hot.
When the radiator has overheated, do not open the radiator cap.
* Failure to follow this precaution can cause scalding water to shoot out and cause burns.

Cover the machine with a sheet after it has sufficiently cooled down.
If covering the machine with a sheet, cover it after the muffler and engine have sufficiently cooled down.
* Failure to follow this precaution can cause a fire.

Install and remove the battery by following the correct procedure.
To install the battery, connect the positive (+) battery cable first. To remove the battery, disconnect the negative (-) battery cable first.
* Failure to follow this precaution can cause a short circuit, which can cause burns and a fire.

Perform inspection and maintenance on a flat and stable place.
Set lower the mower unit and perform inspection and maintenance on a flat and stable place on which the machine will not overturn or move.
* Failure to follow this precaution can cause the machine to overturn and cause an unexpected accident.

Remove debris from the muffler and engine.
Check that there is no grass, debris, or fuel around the muffler and engine and on the brakes every day before operating the machine.
* Failure to follow this precaution can cause the fuel to ignite and cause a fire.
Caution

- Turn the engine off while inspecting and maintenance.
  Be sure to turn the engine off while checking, servicing, repairing, or cleaning the machine.
  * Failure to follow this precaution can cause you to be pinned under the machine or a personal injury.
- Be sure to install the covers.
  Be sure to install any covers that were removed during inspection and maintenance.
  * Failure to follow this precaution can cause you to get caught up in the machine or a personal injury.
- Let overheated parts sufficiently cool down before inspection and maintenance.
  Let the parts that overheat such as the muffler and engine to sufficiently cool down before checking or performing maintenance.
  * Failure to follow this precaution can cause burns.

- Be sure to inspect the electrical components and wires.
  Inspect if the electrical cables are touching other parts, if the cover is disconnected, or if the connector is loose every day before operating the machine.
  * Failure to follow this precaution can cause a fire.
- When storing the machine for a long period of time, remove the battery cable and ignition key.
  When not using the machine for a long period of time and storage, remove the battery cable and ignition key.
  * Failure to follow this precaution can cause an accident.
- Take precaution with high pressure hydraulic oil.
  Always check if the fittings and hoses are loose or damaged. When disconnecting the joints and hoses, release the pressure in the hydraulic circuit.
  * Failure to follow this precaution can cause the high-pressure hydraulic oil to break through your skin and cause an injury.

- Regularly have the engine speed tested at a Baroness dealer to check the engine for safety and accuracy.
- Consult a Baroness dealer when a major repair or assistance is required.
- For safety and maximum performance, use genuine Baroness parts and accessories. Note that the Baroness product warranty may not apply if parts or accessories from other companies are used.
- Do not use this mower if it has been modified.

[Sound pressure level]
This machine was confirmed to have a continuous A-weighted sound pressure level of 88 dB (A) as the result of measuring identical machines based on the procedure specified in directive 98/37/EC and its amendments.

[Sound power level]
This machine was confirmed to have a sound power level of 105 dBA/l pW as the result of measuring identical machines based on the procedure specified in directive 2000/14/EC.

[Vibration level]
-Hand-arm vibration-
This machine was confirmed to have a maximum vibration level on hands and arms of less than 2.5 m/s² as the result of measuring identical machines based on the procedure specified in ISO 5349.

-Whole body vibration-
This machine was confirmed to have a maximum vibration level on whole body of less than 0.5 m/s² as the result of measuring identical machines based on the procedure specified in ISO 2631.
Names of various sections

* Please refer to the following page for the details of the warning labels and operation labels of 1 to 8.

*1: Serial number plate
*2: Specification label

---

KYOISHA CO., LTD.

Model GM4000A
Rating output 41.5kW
Total weight 2,000kg

---

座標関係図

Mower unit raise/lower lever
Throttle lever
Operation panel
Seat
Differential lock lever
Tilt lever
Forward pedal
Backward pedal
Brake pedal
Headlight (work lamp)
Parking brake lever
Oil level gauge
Deck #1
Deck #2
Deck #3
Deck #4
Deck #5
Bonnet
Radiator
Oil cooler
Radiator cover
Muffler

---

*1: Serial number plate
*2: Specification label
Warning label and operation label description

Attach the warning labels and operation labels in the locations that are close to dangerous parts and in which the labels can be easily seen.
If a label is damaged or peels off, attach a new label to the machine.

1. Warning: Read the Operator's manual.
2. Warning: Leave the machine after setting the parking brake, turning the engine off, and removing the ignition key.
3. Danger: Flying objects - Excluding the operator, keep a safe distance away from the machine.
4. Danger: Cutting hands or feet - Do not put near moving parts.
5. Danger: Overturning - Do not operate the machine on a slope of 15 degrees or more.

When going down a slope, fasten the seat belt and operate the machine at slow speeds, ... Lower the mower and travel at a low speed, with the mower lowered.

3. Danger: Cutting hands or feet
If you do not stop rotating the mower and the engine is not turned off, there is a risk that you will get injured.

4. Danger: Cutting of hand
While the blade is rotating, keep away from the machine.

5. Caution: Hot surface
Do not touch. It can cause burns.

6. Caution: Pinch
You can get pinched.

7. High-pressure oil symbol
Read the Operator’s manual.

8. Fuel filler port
(No.2 diesel fuel only)
Features of GM2800A

- Since the five sets of 27-inch rotary mower decks are arranged independently, even it has the large cutting width of 280 cm, the tracking of the undulation is good and operation is possible without damaging the ground.

- Operation can be comfortably done by application of large turbo-diesel engine, and introduction of large-sized wheel motor and original hydraulic circuit.

- By introduction of right-and-left independent large caliber disc brake, it can turn without difficulty in surroundings of trees or in bunker, and a spot turn is also possible.

- Since the five sets of all decks rose, maintenance became easy.

- Cutting height setting can be easily performed by extraction and insertion of adjustment collar.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>GM2800A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive system</td>
<td>Four-wheel drive</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Total Length</td>
<td>370cm</td>
</tr>
<tr>
<td>Total width</td>
<td>300cm (230cm when travelling)</td>
</tr>
<tr>
<td>Total height</td>
<td>230cm (165cm Steering wheel)</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>172cm</td>
</tr>
<tr>
<td>Total weight</td>
<td>2,000kgf</td>
</tr>
<tr>
<td>Speed Wheels</td>
<td></td>
</tr>
<tr>
<td>Two-wheel drive</td>
<td>0~16km/h</td>
</tr>
<tr>
<td>Four-wheel drive</td>
<td>0~9km/h</td>
</tr>
<tr>
<td>Front wheel</td>
<td>29 x 14.00-15</td>
</tr>
<tr>
<td>Rear wheel</td>
<td>20 x 12.00-10</td>
</tr>
<tr>
<td>Engine</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>KubotaV2403M-T</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Displacement</td>
<td>2.434L (2,434cm³)</td>
</tr>
<tr>
<td>Rating output</td>
<td>Gross 41.7kW (56.7PS)/2,600rpm</td>
</tr>
<tr>
<td>Rotation Speed</td>
<td>1,425~2,800rpm (without load) (*)</td>
</tr>
<tr>
<td>Battery</td>
<td>105D31R</td>
</tr>
<tr>
<td>Mowing height</td>
<td>20~91.5mm</td>
</tr>
<tr>
<td>Mowing width</td>
<td>280cm</td>
</tr>
</tbody>
</table>

(*1) Maximum engine rpm is set up 2,450 rpm before shipment.
1. Inspection before use

**Caution**
- Please be sure to check the following matter before putting the engine into operation.

---

### 1-1 Inspection of the rotary knife

Check whether the rotary blade is not damaged and fitting bolts are not loosening. When the blade has damaged, replace immediately after referring to "Replacement of rotary blade." When there is a loose bolt, be sure to carry out retightening.

**Warning**
- If a rotary blade with which balance collapsed is used, it will be very dangerous since mechanical vibration will come out, and it will become cause of machine damage. Be sure to replace the blade and to maintain balance.

---

### 1-2 Cleaning of the radiator, oil cooler and radiator cover

Be sure to clean when the dust has adhered to the radiator, oil cooler, and radiator cover. When you operate it in the dusty place, please try to clean a little early.

**Caution**
- If it does not clean, it will become overheating of the engine and the cause of the seizure. Moreover, it also becomes cause of the damage of the hydraulic equipment.

---

### 1-3 Inspection of the radiator and coolant level

**Caution**
- Perform the inspection when the engine is cold. The radiator cap is the pressure type. If the radiator cap is removed when the engine is high temperature, the steam blows off and it may cause burns. After the water temperature and the pressure falls, apply a thick cloth etc. to the cap. Then turn to the left gradually, and loosen and remove.

- Check that the coolant level of the reserve tank is between "FULL" and "LOW."
- When the coolant is below the line of "LOW", add the coolant from the cap part of the reserve tank to the line of "FULL". When there is no coolant in the reserve tank, supply it also from the cap part of the radiator to the top.
- Do not open the radiator cap in normal inspection.
- When the coolant level decreases, supply clean water only.
- Please drain the cooling water before winter or mix the long life coolant.
- Perform the drainage by the drain plug in the left side of the machine.

---

#### Standard long life coolant (LLC) consistency and the freezing point

<table>
<thead>
<tr>
<th>Freezing point</th>
<th>LLC consistency (volume %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to -10 ºC</td>
<td>20%</td>
</tr>
<tr>
<td>Up to -15 ºC</td>
<td>30%</td>
</tr>
<tr>
<td>Up to -20 ºC</td>
<td>35%</td>
</tr>
<tr>
<td>Up to -25 ºC</td>
<td>40%</td>
</tr>
</tbody>
</table>

* The radiator coolant capacity of this machine is about 12L. (including the reserve tank)
1-4 Inspection and refilling of engine oil

Put the engine on the level surface, and check the level of the oil by the dipstick. It will be the proper quantity, if the oil level is between the upper and lower limit when the dipstick is fully inserted. If the oil level is low, add the engine oil, and if the oil is dirty, exchange the oil. Perform the oil level inspection when the engine is suspended and after 10 to 20 minutes or more past. Please keep in mind that it becomes engine failure and cause of accident if the engine oil added too much.

Perform refilling of the engine oil from the oil filler. It takes some time for the added engine oil to fall in oil pan. Inspect the oil level again in 10 to 20 minutes after adding the engine oil.

* Never mix different kind of engine oil.
* Use the engine oil higher than the API service classification CD class, and SAE viscosity suited to the application environment (temperature).
* The engine oil tank capacity is approximately 10L.

1-5 Inspection of the hydraulic oil

Level the engine and raise the mower unit. Always check whether the hydraulic oil level is at the center of oil level gauge, and supply oil if the level is low.

When refilling the hydraulic oil, use the ShellTellus 46 or equivalent type.

* Do not mix hydraulic oil of different kind by any means.
* The tank capacity is approximately 44L.

1-6 Cleaning of the air cleaner

Perform the inspection with the vacuum pressure indicator. If the element of the air cleaner becomes dirty, the red ring is visible in the vacuum pressure indicator. Remove and clean the air cleaner.

If the element of the air cleaner is dirty, it will become the cause of the engine malfunction. When it's dirty, clean it by carefully tapping the element or blowing air from inside so that the element may not be damaged.

Replace the element of the air cleaner every 200 hours.

Attach the element after clean up and push the reset button.
1-7 Inspection of the engine and its surroundings

Please refer to "Operating and instruction manual" for engine for handling of the engine.

1) The parts of the fuel system should check whether there is neither the crack nor the leak, and replace it with new one if necessary.
2) When the grass, the leaf, etc. have jammed to the inside of the muffler, and exhaust pipe or the surroundings, blow out by air.

1-8 Inspection of the tires

Inspect the tire pressure, crack, damage, and unusual wear.

<table>
<thead>
<tr>
<th>Tire pressure</th>
<th>Front wheel</th>
<th>150kPa (1.5kgf/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rear wheel</td>
<td>140kPa (1.4kgf/cm²)</td>
</tr>
</tbody>
</table>

2. Fastening of each portion

Many parts are fastening by bolts. Bolts and nuts may be loosened some time after initial operation. Be sure to tighten them by the specified torque.

<table>
<thead>
<tr>
<th>Nominal diameter</th>
<th>Normal bolt hardness classification 4.8</th>
<th>Heat-treated bolt hardness classification 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>7<del>9 (70</del>90)</td>
<td>14<del>18 (140</del>180)</td>
</tr>
<tr>
<td>M8</td>
<td>14<del>19 (140</del>190)</td>
<td>28<del>38 (280</del>380)</td>
</tr>
<tr>
<td>M10</td>
<td>29<del>38 (290</del>380)</td>
<td>58<del>76 (580</del>760)</td>
</tr>
<tr>
<td>M12</td>
<td>52<del>67 (520</del>670)</td>
<td>104<del>134 (1040</del>1340)</td>
</tr>
<tr>
<td>M14</td>
<td>70<del>94 (700</del>940)</td>
<td>140<del>188 (1400</del>1880)</td>
</tr>
<tr>
<td>M16</td>
<td>88<del>112 (880</del>1120)</td>
<td>210<del>260 (2100</del>2600)</td>
</tr>
<tr>
<td>M18</td>
<td>116<del>144 (1160</del>1440)</td>
<td>280<del>340 (2800</del>3400)</td>
</tr>
<tr>
<td>M20</td>
<td>147<del>183 (1470</del>1830)</td>
<td>370<del>450 (3700</del>4500)</td>
</tr>
</tbody>
</table>
3. Operation method of each part

3-1  **Caution** About the mechanical operation

Check whether the operation state of each part is good, and the brake disc, tires, steering, and mower do not have abnormalities in particular before operating the engine. In any cases, operate the engine by the speed that can carry out the urgency stop. Locate and remove all debris, in the operating area before using equipment.

3-2  **Warning** Before starting engine

- Inspect the area where the equipment will be used.
- Inspect whether there are no damages and the cover/guard are securely fastened in place.
- Never operate the engine without proper ventilation.

3-3  **Starting and stopping the engine**

**Starting procedure**

1) Sit on the seat, and adjust seat arrangement for safety.
2) Connect the brake pedal on either side with the pedal lever, and step on both of brake pedals. Pull up the parking lever, and apply parking brake.
3) Make the blade rotary switch into the "STOP" position.
4) Pull the throttle lever a little to the upward.
5) When the ignition key is turned to the "GLOW" position, the glow lamp will turn on.
6) Fully turn the ignition key to rightward promptly when the glow lamp turns off, the starter will operate and the engine will start. Release it as soon as engine starts.
7) Ensure that the charge lamp and the engine oil pressure lamp turn off. When they do not turn off, stop the engine and perform the inspection and repair.

**Caution**

- Do not step on the Forward/Backward pedal. It is very dangerous if the machine moves.
- Do not touch the V-Belt, the Pulley, etc. during the engine rotation.
- Operation of the starter is a maximum of 15 seconds. When the engine still does not start, to prevent battery wastage restart should be made 30 to 60 seconds after.

**Stopping procedure**

1) Turn the knife rotary switch to the "OFF" position.
2) Apply the parking brake.
3) Return the throttle lever to the "LOW" position.
4) The engine will stop, when the ignition key turns to "STOP" position.

3-4  **Safety device**

This machine is equipped with the Safety device to starting/stopping of the engine as interlock system.

- Safety device on this machine prevents the engine from starting unless;
  a. Sit on the seat.
  b. Parking brake is engaged.
  c. The blade rotation switch is "STOP" position.
  d. The shift pedal is in Neutral position. (Do not step on the shift pedal.)

- The interlock system will stop the engine if the operator leaves the seat without engaging the parking brake.
3-5 **Danger**  Cautions on fuel handling

- It is highly flammable. Do not smoke when handling fuel.
- Never fill the fuel tank indoors, and while engine is running or the engine is hot.
- In order to prevent the fire, always keep the engine clean and be sure to remove deposition of grass, grease, and oil.
- Clean spilled fuel immediately.

3-6 **Caution**  Cautions when leaving the machine

1) Stop the machine in level place and engage the parking brake.
2) Make the blade rotary switch into the “OFF” position, and lower the mower unit to the ground.
3) Stop the engine.
4) Remove the ignition key.
5) When effectiveness of the brake is not good, park the machine using wheel stoppers.

3-7 Parking brake

The parking brake is on the left side of the front cover. Connect the brake pedal on either side with the pedal lever, and step on both of brake pedals. Pull up the parking brake lever, and engage parking brake. Press the brake pedal down again for releasing the parking brake.

3-8 Brake pedal

Turning characteristics at the operation and travelling performance in inclined field are improved by introducing the independent right and left brake pedals. If the brake pedal of the turning direction is stepped on, it can turn in smaller radius. Moreover, when the front wheel of mountain side slips on inclined field, step on the brake pedal of mountain side to make the traction of the wheel of valley side increase, and stable travelling can be carried out.

<Change procedure from the connection state to the independent mode>

1) Raise the pedal lever and draw out from the right brake pedal.
2) Lock the pedal lever to the guide plate on the left brake pedal.

3-9 Forward/Backward pedal

Two pedals system is adopted. To move forward, press the inside pedal down. To move backward, press the outside pedal down. If the pedal is returned, the machine will stop automatically.

**Caution**

- Be sure to run after releasing the parking brake. Otherwise, the brake disc and the hydraulic equipment are damaged.

**Warning**

- Always connect the brake pedal except the time of operation. If it is used without connecting, a fall accident may occur.
- When you step on the brake and turn in small radius, be very careful of the state of the grass and the ground. The grass may be damaged.

**Warning**

- The travelling in the public road is not permitted by law.

**Warning**

- The travelling in the public road is not permitted by law.
Turn the blade rotation switch to "ON" just before starting the cutting work. When you do not work, be sure to turn it to "OFF".

Start operation after checking that people are not in the surroundings of the machine.

**Caution**
- Never adjust steering while machine is moving.
- To prevent serious accidents, ensure tilt steering lever is fastened during operation.

---

**3-11 Tilt steering**

Pull lever up to release steering column. Tilt column up or down to position desired. Push lever back to lock steering column in place.

**Caution**
- Never adjust steering while machine is moving.
- To prevent serious accidents, ensure tilt steering lever is fastened during operation.

---

**3-12 Switches, levers on the operation panel**

a. Blade rotation switch  
b. 2WD-4WD changeover switch  
c. Traction assist switch  
d. Headlight switch  
e. Throttle lever  
f. Mower unit raise/lower lever

---

**3-13 Blade rotation switch**

When the blade rotation switch is turned to "ON", the rotary blade will rotate, and when it moves to "OFF", the rotation of the rotary blade will stop. When the mower has gone up, the knife does not rotate.

- When the blade rotation switch is "ON", regardless of 2WD-4WD changeover switch, it becomes "4WD".

**Caution**
- Turn the blade rotation switch to "ON" just before starting the cutting work. When you do not work, be sure to turn it to "OFF".
- Start operation after checking that people are not in the surroundings of the machine.
**3-14 2WD - 4WD changeover switch**

The 2WD-4WD changeover switch is in the operation panel. When the switch is turned to "2WD", it will become two-wheel drive (front wheel drive), and when it is turned to "4WD", it will become four-wheel drive.

* When the blade rotation switch is "ON", regardless of 2WD-4WD changeover switch, it becomes "4WD".

**Caution**

- Be sure to use 4WD in a sloping ground.
- When moving, suspend the rotation of the blade, and raise the mower unit.
- Operate the machine in consideration of the state of the roads and the ground, such as the slant and the undulation.

**3-15 Traction assist switch**

When the switch is turned to "ON", Deck Floating Mechanism will operate and strengthen hill-climbing ability.

**3-16 Headlight switch**

When the switch is turned to "ON", the headlight will light up, and the light will be put out when it is turned to "OFF".

**Warning**

- The headlight is auxiliary light. Do not travel or operate when the visibility is not good or in nighttime.

**3-17 Throttle lever**

If the throttle lever is pulling up to the top (HIGH), the engine speed becomes high, and if the throttle lever is lowering to the bottom (LOW), the engine speed becomes low.

*1 Factory setting of the maximum engine rpm is 2,600 rpm.

**3-18 Mower unit raise/lower lever**

The lever returns to the neutral position. When it moves to "DOWN", the deck will be lowered, and if it moves to "UP", the deck will be raised.

If the deck is raised even if the blade rotation switch is in the "ON" position, rotation of the blade will stop.

**Caution**

- Inspect the area where the machine will be used.
**3-19 Differential lock switch**

It is located in the right side on the steering column. It is the switch that operates the differential lock of the both front wheels. If the switch is moved to the upper or lower position, the front wheel will be in the differential lock state. If the switch is released, the switch will return to the neutral position and the differential lock will be canceled.

![Differential lock switch](image)

**Caution**

Never perform the differential lock operation when it’s not required. There is a possibility that the hydraulic equipment may be damaged.

**3-20 Mower lock lever**

When you store the machine hang the mower lock lever when the mower unit #4 and #5 are raised.

![Mower lock lever](image)

**4. Measuring instrument**

**4-1 Instruments of operation panel**

- a. Tachometer & hour meter
- b. Water temperature gauge
- c. Fuel level gauge
- d. Pilot lamp
  - Charge lamp
  - Glow lamp
  - Oil pressure lamp
    (Engine oil pressure lamp)

**4-2 Tachometer & hour meter**

Indicate the engine speed and total operating hour. Carry out the periodic inspection and maintenance, and repair based on the operating hour.

![Tachometer & hour meter](image)

**4-3 Water temperature gauge**

When the water temperature gauge rises to near “H” during the operation, it is in the overheating state. Stop the engine and carry out the maintenance and repair, after making the engine no-load and operating for 5 minutes in idling.

- If the water temperature raise above 115°C, the warning alarm (discontinuous sounds) will sound.

![Water temperature gauge](image)
4-4 Fuel gauge

It indicates current fuel level. If the fuel gauge approaches E(Empty), supply fuel (diesel) immediately. The capacity of the fuel tank is approximately 51 Liters.

Danger

- Never fill gasoline (Petrol) into the tank.
- Never allow fuel to run out of the tank.
- Never overfill the tank.

4-5 Charge lamp

The lamp turns on when the ignition switch is in the "ON" position.
After the engine starts, and the light will turn off if it charges normal. When the lamp is turned on during operation, stop the engine immediately and inspect, do maintenance and repair.

4-6 Glow lamp

Refer to 3-3 "Starting and stopping the engine".

4-7 Oil pressure lamp (Engine oil pressure lamp)

The lamp turns on when the ignition switch is in the "ON" position.
After the engine starts, the light will be turned off, if the oil begins to circulate and it becomes the normal pressure. When the lamp is turned on during operation, stop the engine immediately and carry out the maintenance and repair.
5. Mowing operation

Adjustment of the cutting height

Set the parking brake, lower the mower units, and remove key from ignition switch.

1. Cutting height adjustment by using adjustment collar (3 places per one deck)
   1) Loosen all three nuts fastening the adjustment collar.

2) Refer to the cutting height table and change the number of the adjustment collar.

3) Tighten all the nuts securely after completing adjustment of the collars at the three places.

2. Cutting height adjustment by using adjustment plate (3 places per one deck)
   1) Loosen the bolts (a total of 6) fastening the cutting height adjustment plate and the rotary deck.

2) Raise the carrying handle of the rotary deck, and change the hole location by referring to the cutting height table one place at a time, then temporarily tighten them.

3) When the temporary setting finishes at three places, all the bolts must be tightened securely.

<table>
<thead>
<tr>
<th>Adjustment collar</th>
<th>Zero sheet</th>
<th>One sheet</th>
<th>Two sheets</th>
<th>Three sheets</th>
<th>Four sheets</th>
<th>Five sheets</th>
<th>Six sheets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20.0mm</td>
<td>26.0mm</td>
<td>32.0mm</td>
<td>38.0mm</td>
<td>44.0mm</td>
<td>50.0mm</td>
<td>26.0mm</td>
</tr>
<tr>
<td></td>
<td>30.0mm</td>
<td>36.0mm</td>
<td>42.0mm</td>
<td>48.0mm</td>
<td>54.0mm</td>
<td>60.0mm</td>
<td>66.0mm</td>
</tr>
<tr>
<td></td>
<td>45.5mm</td>
<td>51.5mm</td>
<td>57.5mm</td>
<td>63.5mm</td>
<td>69.5mm</td>
<td>75.5mm</td>
<td>81.5mm</td>
</tr>
<tr>
<td></td>
<td>55.5mm</td>
<td>61.5mm</td>
<td>67.5mm</td>
<td>73.5mm</td>
<td>79.5mm</td>
<td>85.5mm</td>
<td>91.5mm</td>
</tr>
</tbody>
</table>

Caution
- Length of grass mown at once should be less than 30mm.
- Moreover, do not cut 1/3 or more of the total grass length.
- The cutting height at the time of the shipping is set to 48mm.
5-2 Mowing operation

1) Pull up the throttle lever and set engine speed to MAX (2,600rpm). (Refer to 3-16)
2) Release the mower lock lever. (Refer to 3-19)
3) Move the mower unit raise/lower lever to the "DOWN" position, and lower the mower deck. (Refer to 3-17)
4) Turn the blade rotation switch to the "ON" position, and rotate the blade. (Refer to 3-13)
5) Hold the forward pedal down and begin the operation.
   * Respond to the raising or lowering of the mower unit, the blade will rotate or stop automatically.

Caution

- Be sure to work by the speed which suited the working condition.
- The machine detects the position of the mower unit and decides "whether to rotate or stop" the blade. Keep in mind that the blade rotation may not stop if the mower unit is not fully raised by operating the mower unit raise/lower lever.

6. Maintenance of the main unit

6-1 Change of engine oil

Refer to the engine's instruction manual for handling of the engine.

1) Change the oil after the first 50 hours operation, and change it for every 100 hours operation from the next.
2) Remove drain plug on the oil pan. If it carries out while the engine is warm, the oil can be drained completely.

Caution

- Use the engine oil higher than the API service classification CD class.
- The engine oil is high temperature immediately after the operation. Change it after waiting for a while so that you may not be burned, when removing the drain plug.

6-2 Change of hydraulic oil

1) Change the hydraulic oil after the first 100-hour operation, and change it in the shorter period between the one year and 500-hours operation from the next.
2) Always replace the hydraulic filter when changing oil.
3) Remove the drain plug on the bottom of the hydraulic oil tank, and drain the hydraulic oil.
4) Drain and replace the hydraulic oil if you notice the presence of water or foam in the oil (emulsifying), or contamination (lack of transparency).
5) Use the Shell Tellus 46 or equivalent products for the hydraulic oil.
* The capacity of the hydraulic oil tank is approximately 44 liters.

**Caution**
- The hydraulic oil is high temperature immediately after the operation. Change it after waiting for a while so that you may not be burned, when removing the drain plug.
* Do not overfill

---

### 6-3 Inspection of oil leak

All of fittings for hydraulic hose, pump, cylinder etc. may lose after 50 hours operation. The fittings should be securely fastened.

* The level sensor is attached to the hydraulic fluid tank.
  If the amount of hydraulic oil decreases about 2 liters, the warning alarm (discontinuous sounds) will sound.

---

### 6-4 Greasing each part

Carry out the greasing up to the following grease nipples every 50 hours.

<table>
<thead>
<tr>
<th>Grease up points</th>
<th>Parts catalogue number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear roller assembly</td>
<td>20-35</td>
</tr>
<tr>
<td>#1 - #5 lift arm</td>
<td>18-14, 18-23, 18-26, 19-22, 19-28</td>
</tr>
<tr>
<td>#2 - #3 Rotation fitting</td>
<td>19-13, 19-29</td>
</tr>
<tr>
<td>Pivot</td>
<td>5-26</td>
</tr>
<tr>
<td>Forward/backward pedal</td>
<td>7-1, 7-6</td>
</tr>
<tr>
<td>Right/left brake pedal</td>
<td>6-22, 6-29</td>
</tr>
<tr>
<td>Brake fitting</td>
<td>6-2</td>
</tr>
<tr>
<td>Pump center fitting</td>
<td>7-31</td>
</tr>
<tr>
<td>Pump idle lever</td>
<td>7-28</td>
</tr>
</tbody>
</table>

---

### 6-5 Replacement of fuses

1) Fuse box.
The spare fuse and the replacement tool are attached in the fuse box.
Replace with the fuses of the requirement rated capacity.
The fuses are mini-fuse for automobiles.

2) Fusible link
The fuse rated capacity of the fusible link is 50A.

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<p>| | | |</p>
<table>
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</tbody>
</table>

- **A** 5A Timer
- **B** 5A Glow lamp
- **C** 5A Tachometer, fuel gauge, water temperature gauge, charge lamp, oil pressure (engine oil pressure) lamp, Water temperature warning alarm, Hydraulic oil warning alarm
- **D** 15A Relay box 1
- **E** 15A Relay box 2, differential lock, #4, #5 proximity switch
- **F** -
- **G** 5A Timer
- **H** 5A Alternator
- **I** 5A Fuel pump, cooling-fan valve safety relay, stop solenoid
- **J** 5A Relay (starter)
- **K** 5A Spare fuse
- **L** 5A
- **M** 15A
- **N** 15A
- **O** Fuse replacement tool
6-6 Inspection of battery

Refer to the Battery's instruction manual.

Check the electrolyte level between "UPPER LEVEL" (maximum level line) and "LOWER LEVEL" (minimum level line). When the electrolyte level is falling below to half between "UPPER LEVEL" and "LOWER LEVEL", add the refining water to "UPPER LEVEL" immediately.

- Do not drink electrolyte and avoid contact with skin, eyes or clothing. Wear protective glasses and protective clothes.
- When charging battery, battery generate explosive hydrogen gas as battery electrolyte contains sulfuric acid which is deadly poison and causes severe burns.
- Never smoke near the battery and keep sparks and flames away from it.
- When removing battery, remove the negative (-) cable first, and positive (+) cable last. Install the battery; assemble the positive (+) cable first and negative (-) cable last.
- When you connect the battery cables, connect the positive and negative side correctly. When you mistake, the battery and the electrical equipment may be damaged. (The red-color cable is the positive side.)
- If a dry cloth is used to clean the battery, the static electricity may occur and there is danger of fire or explosion.

6-7 Opening and closing the engine hood (R, L)

Detach the rubber catch and pull up the engine hood. Hook the engine-hood support on the carrier of the housing inner side; check that the engine hood does not close.

When you close, detach the engine-hood support from the carrier, lower slowly, and fit the rubber catch.

- When you close the engine hood, be careful not to pinch your hand.
- Do not open the engine hood at the windy place.
6-8 Opening and closing the seat undercover

Raise the tilt steering column to the upper position first, and then move the seat to the rear end position. Pull up the lever behind the seat to release the lock, and then raise the seat and open the undercover. To close the undercover, lower it slowly.

![Seat and lever diagram]

Caution

- When you close the undercover, be careful not to pinch your hand.

6-9 Adjustment of brake

Carry out the clearance adjustment, if the clearance between the brake disk and brake pad becomes large and effectiveness of the brake disc worsens. Loosen the lock nut, and tighten the adjusting nut; the clearance will become small. If adjusted to the proper clearance, tighten the lock nut securely. The fine adjustment can be performed with the wire. Be sure to adjust so that effectiveness of the brake disc on either side becomes the same.

![Brake disk, wire, and lock nut diagram]

Danger

- It will generate heat, if the clearance is too small, and it becomes the cause of the fire.
- If effectiveness of the brake disc on either side is different, it may lead to an unexpected accident.

6-10 Checking operation of the proximity sensor/relay

- There are two proximity sensors. It detects the raising and lowering position of #4 and #5 mower deck, and performs rotation and halt of the blade.
- While operating, the red LED (4,5) in the relay box lights up.

1. When the differential lock valve is turned "ON", the LED 1,2,3 light on.
2. When the blade rotation switch is set to "ON", and while the mower deck is lowered, the LED 4,5 light on.
3. When the blade rotation switch is set to "ON", the LED 6 lights on and becomes 4WD.
4. When the 2WD-4WD changeover switch is set to "4WD", the LED 7 lights on and becomes 4WD.

6-11 Air-bleeding from fuel

Since this machine has equipped the automatic air bleeder, the air-bleeding operation is unnecessary.

- Always use the air-bleeding valve with the fully open position. If it is used in the closed position, it will become the cause of the engine stop.
7. Maintenance of the mower unit

7-1  Grind the edge of the blade on the rotary blade by a grinder. 

2) After grinding, use it after maintaining right-and-left balance by using a knife balancer system.

3) Attach the blade balancer system to a suitable place, insert the rotary blade in the balancer system, and maintain right-and-left balance.

* Warning * If it is used while the balance of the rotary blade is bad, vibration will come out and the machine will be damaged.

* Caution * When you grind the blade, use an eye protector and gloves.

7-2  Replacement of the rotary blade

Set the parking brake, lower the mower units, and remove key from ignition switch.

1. Raise the #2 and #3 deck.

1) Pull out the pin with grip (19-19), and shift the deck horizontally.

2) Insert the pin with grip in the fixed hole for the maintenance.

3) Start the engine and raise the deck.

4) Stop the engine and remove the key.

5) Lift the deck from the front, put the pin (19-5) in the position shown in the figure, and fasten it.
8. Cautions for maintenance

**Caution**

- When high pressure oil is injected to the skin, get seriously injured.
- Eliminate the pressure before removing the high-pressure line hose coupling.
- Check visible hose, fittings before operating the machine.
- Use the paper or cardboard for the test of oil leak. If hydraulic oil is injected into the skin, be sure to have medical treatment by doctor within 2 to 3 hours.

**Warning**

- Read this manual carefully and have full knowledge of the maintenance procedure.
- Stay the machine on a flat, clean and dried place.
- Never lubricate or maintenance where the engine is run.
- Keep hands, feet away from drive/moving part if engine is run.
- Set lower the mower unit to the ground, engage parking brake, stop the engine and remove key from ignition switch.
- Use correct/appropriate parts in good condition.
- Repair or replace worn or damaged parts immediately.
- Do not modify any mechanical equipments/parts. Use Baroness genuine equipments or parts for safety.
- Clean up grass and debris, oil/grease or fuel spillage.
- Make sure to disconnect the negative (-) battery cable before maintaining the electric circuit.
- When you maintain with the machine raised, carry out the safe support securely.

---

2. Raise the #1 deck.
   1) Start the engine and raise the deck.
   2) Stop the engine and remove the key.
   3) Lift the deck from the front, put the pin (18-5) in the position shown in the figure, and fasten it.

3. Fix the #4 and #5 deck.
   1) Start the engine and raise the deck.
   2) Stop the engine and remove the key.
   3) Put the pin (18-5) in the position shown in the figure, and fix the deck.

4. Detach the knife.
   * Be sure to stop the engine, and remove the key.
   1) Use the square pipe from the attached tool, fix so that the blade may not turn, and remove the blade fitting bolt (2 pcs).

5. Install the knife.
   1) Install in the reverse procedure of removal.

6. Return the pin (19-5) (18-5) to the original position after the end of work.
   * Tightening torque of the blade fitting bolt: 104 - 134 N-m (10.4 - 13.4 kgf-m)

---

8-1 **Caution** Cautions for maintenance

- Read this manual carefully and have full knowledge of the maintenance procedure.
- Stay the machine on a flat, clean and dried place.
- Never lubricate or maintenance where the engine is run.
- Keep hands, feet away from drive/moving part if engine is run.
- Set lower the mower unit to the ground, engage parking brake, stop the engine and remove key from ignition switch.
- Use correct/appropriate parts in good condition.
- Repair or replace worn or damaged parts immediately.
- Do not modify any mechanical equipments/parts. Use Baroness genuine equipments or parts for safety.
- Clean up grass and debris, oil/grease or fuel spillage.
- Make sure to disconnect the negative (-) battery cable before maintaining the electric circuit.
- When you maintain with the machine raised, carry out the safe support securely.

---

8-2 **Warning** Prevention of the damage caused by high-pressure oil

- When high pressure oil is injected to the skin, get seriously injured.
- Eliminate the pressure before removing the high-pressure line hose coupling.
- Check visible hose, fittings before operating the machine.
- Use the paper or cardboard for the test of oil leak. If hydraulic oil is injected into the skin, be sure to have medical treatment by doctor within 2 to 3 hours.

---

**Caution**

- Replace the bearing of the mower and oil seals for every season.
### 8-3 Maintenance schedule

- Use the required tools suitable for the purpose of the maintenance.

#### Engine

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Before use</th>
<th>Every 50hrs</th>
<th>Every 100hrs</th>
<th>Every 200hrs</th>
<th>Every 500hrs</th>
<th>Every 6 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection of engine oil</td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>Change of engine oil</td>
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<tr>
<td>Replacement of oil filter</td>
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<tr>
<td>Cleaning of radiator, oil cooler and radiator cover</td>
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<tr>
<td>Inspection of coolant</td>
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<tr>
<td>Inspection and cleaning of air filter</td>
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<tr>
<td>Replacement of air filter element</td>
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<tr>
<td>Inspection of fan belt</td>
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<tr>
<td>Inspection of battery electrolyte</td>
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<tr>
<td>Replacement of fuel filter</td>
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</table>

#### Main body

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Before use</th>
<th>Every 50hrs</th>
<th>Every 100hrs</th>
<th>Every 200hrs</th>
<th>Every 500hrs</th>
<th>Every 6 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection of tires</td>
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<tr>
<td>Inspection of fuel</td>
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<tr>
<td>Inspection of hydraulic oil</td>
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<tr>
<td>Replacement of hydraulic oil</td>
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<tr>
<td>Replacement of oil filter</td>
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<tr>
<td>Inspection of brake</td>
<td></td>
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<tr>
<td>Oil leakage of each part</td>
<td></td>
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<tr>
<td>Inspection of slack or damage on each part</td>
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<tr>
<td>Inspection of rotary blade</td>
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<tr>
<td>Grease up</td>
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<tr>
<td>Remove adhesion of cutting grass, etc.</td>
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</tbody>
</table>

### Specifications for periodic maintenance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil capacity</td>
<td>MAX: 9.7 L MIN: 7 L</td>
</tr>
<tr>
<td>Coolant capacity</td>
<td>Total capacity 12 L</td>
</tr>
<tr>
<td>Tire pressure (standard tire)</td>
<td>Front tire 150 kPa (1.5kgf/cm²)</td>
</tr>
<tr>
<td></td>
<td>Rear tire 140 kPa (1.4kgf/cm²)</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>Approximately 51 L</td>
</tr>
<tr>
<td>Oil tank capacity</td>
<td>Approximately 44 L</td>
</tr>
</tbody>
</table>

### Wear parts lists for the engine, hydraulic system

**For engine**

<table>
<thead>
<tr>
<th>Parts name</th>
<th>Code No.</th>
<th>Parts catalogue No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil filter element</td>
<td>PF16414-3243-0</td>
<td></td>
</tr>
<tr>
<td>Air filter element</td>
<td>PFR1401-4227-0</td>
<td></td>
</tr>
<tr>
<td>Fan belt</td>
<td>PF17112-9701-0</td>
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</tr>
<tr>
<td>Fuel filter cartridge</td>
<td>PF15221-4317-0</td>
<td></td>
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<tr>
<td>Battery</td>
<td>K36000000180</td>
<td></td>
</tr>
</tbody>
</table>

**For hydraulics system**

<table>
<thead>
<tr>
<th>Parts name</th>
<th>Code No.</th>
<th>Parts catalogue No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil pressure filter cartridge</td>
<td>K34100000030</td>
<td></td>
</tr>
<tr>
<td>Suction filter</td>
<td>K34130000040</td>
<td></td>
</tr>
</tbody>
</table>
9. Adjustment of the other functions

9-1 Adjustment of the neutral position of piston pump

1) Jack up the machine and put on a stable stand, and float the front and rear wheels.
2) Raise the seat upwards.
3) Start the engine and run at high speed, and put the 2WD-4WD changeover switch into "2WD."
4) When the front wheel rotates in the forward direction, loosen the locknut and turn in the direction that reduces the length of the neutral adjustment rod. When rotating in the backward direction, turn in the direction that extends the length of the neutral adjustment rod. Find the position at which the front wheel stops and tighten the locknut.

9-2 Traction when the machine is unable to travel.

1) When the engine is running, stop the engine.
2) Apply the parking brake and attach a wheel stopper.
3) Set the 2WD-4WD changeover switch into "2WD."
4) Raise the seat upward.
5) Turn 90 degrees of the unloading valve beside the hydraulic pump.

Caution

- When you tow, drive carefully at a low speed.
- When you put the engine into operation next time, be sure to start after returning the unloading valve.

10. Long-term storage

Please refer to the Engine/Battery operation manuals for details.

Stay the machine at flat and stable place, then turn the engine off and set the parking brake, lower the mower unit, and remove key from ignition switch.

1. Clean grass and debris from mower unit, drives, muffler, radiator and engine. Clean up oil, grease or fuel spillage.
2. Inspect and replace the engine oil and filter element.
3. Refill oil and apply lubricating/greasing to each lubrication part.
4. Drain the fuel in the fuel tank. Do this outdoors.
5. Set the air pressure in the tires slightly higher than normal, place the machine on a board to avoid humidity.
6. Inspect all bolts, nuts and screws tightened. If worn or damaged replace them.
7. Repair or replace damaged parts and paint peelings. Store it where it is dry and free from rain.
8. Remove the battery from the machine. If you keep the battery installed in the machine, disconnect the grounding side (negative side).
References of other Community Directives applied

- ISO 9001: 1994
- EN836: 1997
- ISO 12100-2: 2003
- ISO 12100-1: 2003


In accordance with the following Directives:

- The Hampshire Rectangular, Ltd.

Address: Hampshire Rectangular, Ltd.

Kyoeisha U.K. Ltd.

Address:

Type: Ride-on Lawnmower

Model:

Branding Serial No.: GKN2800A

Manufacturer's Address:

Kyoeisha Co. Ltd.

Manufacture's Name:

We hereby declare that:

EC Declaration of Conformity
Kyoeisei Co., Ltd.
CS Promotion Dept.
Manager
Hiroaki Iwama

Date: May 20, 2008

Signature:

Reference of other Community Directives applicable:

98/37/EC and 2004/108/EC

Equipment for use outdoors 2000/14/EC in accordance with Article 12 of the Directive.
The product is in conformity with the Directive relating to the noise emission in the environment by
Means of conformity:

Test Laboratory: L-185 Luxemburg 24 Rue体积
TU Vienna and Luxembourg GmbH
NO. 1022004-00
May 4, 2008

Luxembourgt
530 Sandweiler
11, Rue de Sandweiler
SNC-H

(Annex V (1) of 2000/14/EC Technical Document and Periodic Checking
Internal Control of Production with Assessment of
Japan
1-26 Miyuki-cho, Toyokawa, Aichi-Prer.
Kyoeisei Co., Ltd

Japan
1-26 Miyuki-cho, Toyokawa, Aichi-Prer.
Kyoeisei Co., Ltd

LMA 105 dB
LMA 104.25 dB
L1101
GM280A
BarOense
Ride-on lawn mower

Manufacturer’s Declaration of Conformity for