Before using the machine please ensure that you have read this manual and the operating and instruction manual for the engine.
Warning for Safety

Warning labels with the mark have been attached to this machine. The labels indicate the items which are particularly important from the safety point of view, so please work safety and always obey warnings.

Warning Marks

⚠️ DANGER
Negligence of the warning will cause death or serious injury.

⚠️ WARNING
Negligence of the warning may cause death or serious injury.

⚠️ CAUTION
Negligence of the warning may cause injury and/or physical damage.

Symbols

- See the Handling Manual
- Caution mark (Rotating parts)
- Caution mark (Hot surface)
- Fuel mark (Light oil No.2)
- Caution mark Exhaust gas
- Caution mark Crushing
- Danger mark Flying objects
- Danger mark Blade rotation
- Grease
- Warning mark High-pressure oil
- Strict prohibition of fire
- Every 50 hours

Greeting

Thank you very much for purchasing the BARONESS HAMMER KNIFE MOWER HMA1560/HMA1720.

This handling manual explains the method of correct use, adjustment and inspection of the HAMMER KNIFE MOWER. Carefully read this manual before operation so as to thoroughly understand the machine. The machine is shipped after sufficient trial operation and inspection when it is completed at the factory. However, whether or not the machine can exhibit its expected performance depends greatly on the handling method, as well as the skill of inspection, adjustment, and lubrication before and after operation. Carefully maintain your machine to bring out the best in the machine and for safe operation. Keep this manual near the machine for future reference to confirm unclear points as necessary.

= CAUTION =

◆ The type of the machine may change sequentially. Please inform us of the machine No. when making an inquiry.
◆ For improvement the contents of this manual are subject to change without notice.

CAUTION

- Warning marks have been used in this Manual and machine to ensure that you can operate it safely. Please read carefully to understand well.

- Thoroughly understand the operation procedure and safety cautions before you operate this machine.

- The marks and accompanying explanations should be preserved in their entirety. If they become lost or damaged please replace them immediately with new ones.
Location of labels

Fuel filler port (diesel)
Refer to p.12 and p.16.

Sign of caution against hot section
※ Danger of skin burn. Do not touch.

Various types of oil
Refer to p.7

Engine oil
Refer to p.16.

Hydraulic oil
Refer to p.7 and p.12.

Gear oil
Refer to p.17.

Unlock

Side brake
Refer to p.11.

Lock

Read the handling manual.

Various pilot lamps

Overheat alarm buzzer
Refer to p.11.

Knife clutch lever mark
Refer to p.10.

Engine emergency stop unit
※ Be sure to wind the emergency switch cord around the arm or part of the body.
Refer to p.4.
Work on a slope
Refer to pp.11-12.

Sign of danger from hammer knife
Do not approach the blade.
Do not allow people to stand in front of the machine.

Caution as to injury by scattered objects
Caution as to injury by cutting blade

Mowing height adjustment
Refer to p.7.

Hydraulic oil mark
Refer to p.7.

Sing of caution against fire

Hydraulic cylinder single-double changeover switch
Refer to p.17.

Maintenance

Ordinary operation

High Low Low High

Lubrication of each part
Refer to p.8.

Scale of mowing height
Refer to p.10.

Blade rotation prohibition range

Hoisting
Refer to p.16.

Work on a slope
Refer to pp.11-12.

Sing of caution against rotating section
Keep away to avoid danger of being caught.

Lubrication of each part
Refer to p.8.

Scale of mowing height
Refer to p.10.

Blade rotation prohibition range

Ordinary operation

High speed
Low speed
Neutral
Low speed
High speed

Traveling lever
Refer to p.10.

Forward
Backward

Left turn
Straight on
Right turn

Refer to the handling manual.

※ Be sure to practice the matter described in “2-4. Fire prevention” on P.5.

Caution as to injury by scattered objects
Caution as to injury by cutting blade

Sign of danger from hammer knife
Do not approach the blade.
Do not allow people to stand in front of the machine.

Work on a slope
Refer to pp.11-12.

Sing of caution against rotating section
Keep away to avoid danger of being caught.

Lubrication of each part
Refer to p.8.

Scale of mowing height
Refer to p.10.

Blade rotation prohibition range

Ordinary operation

High Low Low High

Hydraulic cylinder single-double changeover switch
Refer to p.17.

Maintenance

Hydraulic oil mark
Refer to p.7.
1. Precautions as to use

1-1 CAUTION Preparation before use of machine
   ① Be sure to check and maintain the machine before and after use.
   ② The protective cover and other protective parts are provided to prevent users from danger. Be sure to install them at the specified locations, and replace them with new ones when they are broken.
   ③ Carefully read the warning labels and operation manual before operating the machine to thoroughly understand the machine operation.

1-2 WARNING Emergency switch
   • Unless the emergency switch is used, the engine may not stop in an emergency, leading to death or serious injury.
   • Be sure to install the emergency switch correctly. Wind the string of the emergency switch around your arm or body completely before using the machine.

1-3 DANGER Be careful of rotating parts
   ① The knife and other rotating parts are dangerous. Do not put your hands, feet, or any other object in them or do not touch them during work or maintenance.
   ② Check that there is no person or other objects that may break the machine around the machine or in the area within 30 degrees and 100 m at the front of the machine during operation.
   ③ Stones, wires, sticks, and other obstacles may cause damage to the knife or an accident due to flying objects. Remove them before operating the machine. Wires, vinyl and other objects may be wound around the knife shaft. When you hear an abnormal sound, stop the engine, and remove such objects after the knife shaft has stopped rotation.
   ④ Should the knife be broken, the knife shaft will be unbalanced, causing vibration, which is very dangerous. Be sure to change the knives, otherwise the machine will be broken.

1-4 CAUTION Be careful of hot part
   • Do not touch the cover or muffler during operation or right after the machine stops, otherwise a skin burn may result.
2. Safety operation

Blades rotate at high speed in the mowing machine under severe conditions such as vibration, slope, and dust. Operation conditions are subject to the place of use, existence of obstacles, condition of grass, etc. We sincerely desire that users should inspect and maintain the machine completely, make efforts to master the machine operation skill, take measures for safety, use the machine correctly so as not to do harm to others, and give top priority to safety operation.

2-1 WARNING Clothes for safety

Wear proper clothes that will not be caught in the machine, and wear protective gear, goggles, shoes, helmet, and gloves. Provide a first aid kit and secure a means of communication to deal with an emergency.

2-2 WARNING Avoid such operation

① Do not use the machine when you are tired. When you feel tired while using the machine, stop the work and take a rest.
② Sick people, drunken people, and people under the influence of drugs are not allowed to use the machine. The visual sense, nimbleness in action, and judgment will be adversely affected.
③ When you are unfamiliar with machine operation, read the handling method and safety precautions to understand them well before operating the machine. Do not allow children to use the machine.

2-3 CAUTION When lending the machine to others

When lending the machine to others, an unexpected accident may occur because they have no knowledge about the safety precautions and handling method shown in the operation manual. Hand over the operation manual and tell them to read it carefully before using the machine, explaining the handling method well.

2-4 CAUTION Fire prevention

Do not operate the machine with mown grass, dust, etc. accumulated in the cover or around the engine or the transmission, otherwise fire or other trouble may result. Remove them carefully. Improper maintenance and incorrect operation and dry grass mowing might cause fire. Clean and check the machine as shown below before and during work.
① Remove dry grass, dust, and other obstacles from around the muffler and engine.
② Check the fuel hose for cracks due to deterioration.
③ Check for fuel leakage during fuel supply.
④ Fuel supply during engine operation is prohibited.
⑤ Check the wiring to prevent fire due to a short circuit.
⑥ Inspect the fuel tank and carburetor for fuel leakage due to operation on a slope.
⑦ Be sure to carry a fire extinguisher and water etc. when mowing dry grass.

2-5 WARNING Prohibition of nighttime traveling and work

The machine is not provided with any lighting equipment. Do not operate the machine at nighttime or when the visibility is poor due to bad weather, etc.

2-6 CAUTION Remodeling of the machine prohibited

Do not remodel the machine. Use genuine parts for maintenance to ensure safety.

◆ Antiscattering chain

The antiscattering chain is used to prevent stones, etc. from scattering forward during mowing, thereby preventing damage to human beings, buildings, vehicles, etc. Refer to "6. Knife frame" in the parts catalog for the installation method.

CAUTION

Observe the precautions in "1. Precautions as to use" and "2. Safety operation" and pay sufficient attention to the area around the machine during operation.
3. Part names

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>No.</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Handle</td>
<td>10</td>
<td>Step</td>
</tr>
<tr>
<td>2</td>
<td>Side brake lever</td>
<td>11</td>
<td>Sprocket</td>
</tr>
<tr>
<td>3</td>
<td>Throttle lever</td>
<td>12</td>
<td>Crawler</td>
</tr>
<tr>
<td>4</td>
<td>Traveling lever</td>
<td>13</td>
<td>Bottom roller</td>
</tr>
<tr>
<td>5</td>
<td>Knife clutch lever</td>
<td>14</td>
<td>Front roller</td>
</tr>
<tr>
<td>6</td>
<td>Mower portion (Hammer knife)</td>
<td>15</td>
<td>Knife guard</td>
</tr>
<tr>
<td>7</td>
<td>Protection plate</td>
<td>16</td>
<td>Muffler</td>
</tr>
<tr>
<td>8</td>
<td>Protection plate frame</td>
<td>17</td>
<td>Fire extinguisher</td>
</tr>
<tr>
<td>9</td>
<td>Emergency switch</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Features

- This energy-saving type large mowing machine with a diesel engine is manufactured for professional use especially for slope land operation. The mowing width is 154 or 170 cm, and the maximum output is 26.5 kW. The machine is ideal for mowing on river banks, skiing ground and major roads, as well as in other large areas.
- The rubber crawler ensure great hill climbing ability, and the low center of gravity permits safe work even on a slope. The crawler section is provided with a seesaw roller mechanism to cope with pitching, and the projections inside the crawler are made long to prevent crawlers from coming off. The grease cylinder used for crawler tension adjustment is easy to operate.
- The machine travels hydraulically at variable speed. The single traveling lever permits simple operation to move the machine forward and backward, change the speed, and turn the machine. The position of the traveling lever can be selected from five angles, ensuring satisfactory operation and improvement of work efficiency.
- The hydraulic system permits easy adjustment of mowing height. The special structure of the knife frame permits long grass cutting length and easy collection of cut grass. The grass stop shaft (option) makes the cutting length shorter.
- The step (simple riding unit) keeps the machine horizontal by using an angle sensor so as to enhance safety of the operator.
- The hammer knives are attached to move freely and the structure lessens impact of stones and other obstacles when they hit against the hammer knives, hardly causing damage to the hammer knives.
- The hammer knife is made of heat-treated special tough steel, ensuring sharp cutting and durability and permitting use of both sides by changing the right and left knives. The hammer knives are attached by bolts and nuts, permitting easy change.
- The four-cylinder diesel engine with a starter is easy to start, and the forced lubrication system and large oil pan can withstand the instantaneous maximum inclination of 35 degrees.
- The hitch method is adopted to install the mower portion, permitting easy installation/removal of the portion.
5. Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>HMA1560</th>
<th>HMA1720</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length</td>
<td>3,000mm (3,200mm Foot step)</td>
<td></td>
</tr>
<tr>
<td>Total width</td>
<td>1,717mm</td>
<td>1,910mm</td>
</tr>
<tr>
<td>Total height</td>
<td>1,350mm</td>
<td></td>
</tr>
<tr>
<td>Engine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine type</td>
<td>Mitsubishi Diesel S4L2-E231KM 1.758L (1,758 cm3)</td>
<td></td>
</tr>
<tr>
<td>Max. output</td>
<td>26.5 kW/2,800 rpm (36 PS/2,800 rpm)</td>
<td></td>
</tr>
<tr>
<td>Fuel tank</td>
<td>33 L (dm3)</td>
<td></td>
</tr>
<tr>
<td>Rubber crawler</td>
<td>30 × 7.2cm(51P)</td>
<td>35 × 7.2cm(51P)</td>
</tr>
<tr>
<td>Speed change</td>
<td>Forward: 0-6.5 km/h</td>
<td>Backward: 0-4.5 km/h</td>
</tr>
<tr>
<td>(Hydraulic variable speed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hammer knife</td>
<td>120 blades</td>
<td>140 blades</td>
</tr>
<tr>
<td>Knife clutch</td>
<td>Belt tension type</td>
<td></td>
</tr>
<tr>
<td>Mowing height</td>
<td>3-28 cm(max. 42 cm)</td>
<td></td>
</tr>
<tr>
<td>Mowing width</td>
<td>154cm</td>
<td>170cm</td>
</tr>
<tr>
<td>Efficiency</td>
<td>70 are/h (6.5 km/h)</td>
<td>77 are/h (6.5 km/h)</td>
</tr>
<tr>
<td>(Mowing width × Operation speed × 0.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. operating inclination</td>
<td>30°</td>
<td></td>
</tr>
<tr>
<td>Ground pressure</td>
<td>16.6kPa</td>
<td>14.6kPa</td>
</tr>
<tr>
<td>Dry weight</td>
<td>1,470kg</td>
<td>1,510kg</td>
</tr>
<tr>
<td>Curb weight</td>
<td>1,535kg</td>
<td>1,575kg</td>
</tr>
</tbody>
</table>

⚠️ CAUTION

The idling speed of the engine is approx. 1,500 rpm. Set the idling speed to avoid sympathetic vibration with the machine. The engine revolution may reach 3,000 rpm under no-load condition.

6. Inspection before use

Inspect the machine according to “13. Maintenance schedule.”

6-1. Lubrication to each part

① Supply the specified quantity.
② Don’t use old oil.
③ Lubrication the friction surfaces of each part.

Refer to the diesel engine operation manual for the method of handling the engine.

6-2. Inspection of hydraulic oil

Approx. 28 litters of hydraulic oil is in the hydraulic tank. Place the machine horizontally and check that the level of the hydraulic oil is at the center of the oil gauge.

6-3. ⚠️ CAUTION Hydraulic oil change

① Change the hydraulic oil one year or 500 hours later, whichever comes earlier.
② Change the filter when the hydraulic oil is changed.
③ When the hydraulic oil is emulsified or its transparency is lost even slightly, change it instantly.
④ Supply the hydraulic oil, Shell Tellus ST46 or TX46 (ISO VG46) or its equivalent.
6-4. Lubrication of friction surface of each part

Supply oil constantly to the inlet/outlet of the wire and the joint of each part to prevent rusting. Supply grease to the grease nipple every 50 hours.

- Crawler [26 places]

- Operation lever and neutral positioning [8 places]

- Fulcrum of knife frame [2 places]

- Tension [3 places]
7. Tightening each part

Bolts are used for each part. After initial use of the machine, the bolts and nuts may get loose. Tighten loose bolts and nuts.

<table>
<thead>
<tr>
<th>Optimum tightening torque: N-m (kgf-cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordinary bolt</td>
</tr>
<tr>
<td>M 6</td>
</tr>
<tr>
<td>M 8</td>
</tr>
<tr>
<td>M10</td>
</tr>
<tr>
<td>M12</td>
</tr>
<tr>
<td>M14</td>
</tr>
</tbody>
</table>

8. Engine starting sequence

8-1. **WARNING** Engine start

- Before starting the engine, read the diesel engine operation manual to thoroughly understand the contents.
- Put on the side brake and set all driving units at the neutral position.
- Check that the covers are at correct positions and that there is no one around the machine, and confirm safety before starting the engine.
- Do not start the engine in a room without an appropriate ventilator.
- Check that the knife clutch lever is disengaged before starting the engine.

8-2. Engine start · operation method

① Set the throttle lever in the high-speed range.
② Check the instruments.
[Key] → [ON] (Energization)

③ Start
After the glow lamp goes out
[Key] → [S] (Start)

④ Operation
[Key] → [ON] (Operation)

8-3. Engine stop method

① Return the throttle lever to the slow-speed position.
② Turn OFF the switch and remove the key.

8-4. **CAUTION** Precautions to take when leaving the machine

Park the machine in a horizontal state, turn off the engine, and check that all movable sections have stopped. Then put on the side brake and remove the key before leaving the machine. Never park the machine on a slope.
9. Machine operation

9-1. **CAUTION** Machine operation

- Check that the operating condition of each part especially the safety of the side brake, traveling lever and hammer knife mower before operating the machine.
- Operate the machine at slow speed so that the machine can be stopped immediately in any case.
- Remove obstacles from the operation area so that you and other people around the machine will not be injured.

9-2. Knife clutch

Pull the knife clutch to your side to engage it, and push it forward to disengage it.
The engine cannot be started when the knife clutch is engaged.

9-3. Traveling lever

- The traveling lever is at the center of the rear section of the machine. Push it forward to move the machine forward, and pull it back to your side to move the machine backward. Adjust the speed by changing the inclination of the lever.
- Turn the traveling lever to the direction of the desired direction of turning. Return the lever to the original position, and the machine will move straight.
- The position of the traveling lever can be selected from five angles. Change the position of the lever according to the operating conditions.

**CAUTION**

- Engage the knife clutch right before starting mowing operation. Be sure to leave it disengaged during any operation other than mowing.
- Since the knife shaft rotates by the centrifugal force, engage the clutch halfway until the rotation is normal. Do not engage the clutch completely at a stroke.

**WARNING**

When driving the machine on a steep slope, the machine will not stop even if the traveling lever is released. When driving the machine on a slope, hold the traveling lever with one hand and the handle with the other hand so that the machine can stop any time. Never release them during traveling.

9-4. Mowing height adjustment

The hydraulic method, in which a solenoid valve and cylinder are used, is adopted for mowing height adjustment. Tilt the mowing height adjusting switch on the traveling lever to your side to raise the mowing height, and tilt it forward to lower the mowing height. The mowing height adjusting range is 3-30 cm. The knife rotation above the range is prohibited for safety’s sake though the mower portion itself can be raised higher for the sake of transportation or storage. Adjust the mowing height appropriately. Adjust the mower portion lowering speed with the valve unit, which will be seen at the back of the fuel filler port when the right side cover is opened.

9-5. Working speed

The working speed is hydraulic variable within the range of 0-6.5 km/h for forward operation and 0-4.5 km/h for backward operation. Adjust the speed appropriately with the traveling lever according to the condition of the geography and grass.
9-6. Step (simple riding unit)

The step is kept horizontal at all times by the angle sensor, automatic level control box and electric cylinder. The "step control changeover switch" at the left side of the traveling lever permits switching from AUTO to MANUAL, and vice versa. When the step control changeover switch is in the "MANUAL" position, the "step control manual switch" under the step control changeover switch permits control.

However, be sure to set the step control changeover switch in the "AUTO" position during mowing. Use the manual position only when maintaining the machine, the automatic control circuit fails, or some other emergency arises. When the automatic circuit fails, replace the part with a new one immediately. Do not operate the machine for mowing on the manual control step.

9-7. Transportation on public roads

For transporting this machine through public roads, follow the appropriate laws of the country where it is moved.

9-8. Alarm buzzer

When the alarm buzzer sounds, the engine is overheated. Stop operation, and remove dust that is jamming in the radiator or air cleaner etc.

9-9. Side brake

When the machine is not to be moved, pull the side brake lever fully to your side, and the brake will be applied to the hydraulic motor and the traveling lever will be locked at the neutral position.

10. Hammer knife

When the balance is lost, the hammer knife will vibrate because it is rotating at high speed, which is very dangerous. Exercise care sufficiently.

10-1. Use of both sides of hammer knife

Both sides of the hammer knife are sharpened. When one side is worn, remove the pair of knives, and attach them reversely. The knife is attached to the knife shaft mounting hitch section by 11 mounting pin 32 and the nut with disc washer, and the knife can be removed easily. Attach the mounting pin in the same direction as before.

10-2. Replacement of hammer knife

The knife shaft assy is balanced when shipped from our factory; therefore, unless all the knife blades of the same weight each are replaced at one time, or unless replaced symmetrically on the right and left portions of the knife shaft, the weight balance may be lost and vibration may be generated.

Since the hammer knife shaft assy are rotated at high speed, pay attention to the weight balance when replacing the hammer knife.

10-3. Grinding the hammer knife

When both sides of the hammer knife blade are worn, grind each blade in a manner that the weight of each blade will be the same as much as possible.

When the weight balance of the hammer knife shaft assy including the knife blades is poor, the hammer knife shaft assy will generate vibration, breaking the machine.

11. Operation on slope

11-1. Operation on slope

When operating the machine on a slope, move the machine upward gradually from the bottom of the slope along the contour line.

When operating the machine on a slope, push the traveling lever forward to move the machine forward, pull it to your side to move the machine backward, and change the angle of the traveling lever to change the speed. Turn the traveling lever in the direction, in which the machine is to be turned. Release the traveling lever, and the lever will be set in the neutral position, stopping the machine. For safety, stop the machine so that it will be positioned along the contour line. When stopping the machine vertically on a slope, the machine may not be able to stop immediately because of the inertia of the traveling machine. The machine is provided with a hydraulic traveling system, and the step is provided with an automatic level control sensor. When the machine is therefore turned toward the bottom of the slope, the machine will turn smoothly because the center of gravity of the machine changes favorably, also ensuring the operator since this way can avoid his position just below the machine during turn.
11-2. **WARNING** Precautions as to operation on a steep slope

Be sure to observe the following matters when using the machine on a steep slope of 20 degrees and above.

1. Do not operate the machine when there is a risk of falling or slipping.
2. Before starting operation on a steep slope, check for holes, rocks, tree roots, illegal throwaways, etc. Remove them, if any, and then carefully operate the machine.
3. On a steep slope, operate the machine along the contour line, and turn the machine in a place with a small angle of inclination as much as possible.
4. Do not operate the machine on a steep slope of 30 degrees and above. Since the machine is very likely to fall down sideways on such a steep slope.
5. When ropes are used on a steep slope while working together with an assistant worker, the machine may move to a very steep slope with an angle of inclination that exceeds the allowable angle and the risk of falling down sideways will increase, preventing safe operation. As a maker of the machine, we will prohibit such operation.

12. Precautions as to maintenance

12-1. **CAUTION** Precautions as to maintenance

- Thoroughly understand the method of required maintenance.
- Do maintenance in a dry, clean place.
- Do not supply oil or do maintenance while the machine is operating.
- Do not bring your hands or feet near the driving and operating parts.
- Stop all driving parts, and operate respective control units to release the pressure.
- Install all parts in a satisfactory state.
- Repair or replace damaged parts immediately.
- Replace worn or damaged parts.
- Do not remodel the machine. Use genuine parts for maintenance to ensure safety.
- Remove dust, grease, and oil adhering to the machine.
- Remove the minus (-) wiring from the battery before maintaining the electric system.

12-2. **WARNING** Prevention of damage due to high-pressure oil

- The high-pressure oil, when sprayed over the skin, will cause serious injury.
- Release the pressure before removing the high-pressure line, hose, and joints.
- Check the tightness of all joints before starting operation.
- Use a small piece of cardboard to check for leakage. When your skin is sprayed with high-pressure oil, you must see a doctor within two to three hours.

12-3. **DANGER** (Diesel fuel) Precautions as to fuel handling

- Use of fire is prohibited strictly during fuel supply.
- Stop the engine to cool it outdoors before supplying fuel.
- To prevent fire, keep the machine clean without dust, grease, or oil at all times.
- Wipe off spilt fuel cleanly.

12-4. Precautions as to battery handling

Refer to the battery instruction manual for the method of handling the battery.

- Use of fire is prohibited strictly when checking or charging the battery. The electrolyte is dilute sulfuric acid. Do not allow it to contact your body or the machine. If the electrolyte adheres to your body or the machine, wash it off with water immediately. Especially when it enters your eyes or you swallow it by mistake, see a doctor immediately.
- When removing the cable from the battery, remove the negative side first, and when attaching the cable to the battery, attach the positive side first. When the sequence is reversed, tools may touch the machine and cause a short circuit, generating sparks. Connect the battery cables correctly to the positive and negative sides. If the direction of connection is wrong, the battery and its electric equipment will be damaged.
13. **Maintenance schedule**

Refer to the diesel engine operation manual for the method of handling the engine.

〇----Inspection, adjustment, replenishment and cleaning  
●----Replacement

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Before use</th>
<th>10hrs</th>
<th>every 50hrs</th>
<th>every 200hrs</th>
<th>every 500hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine oil</td>
<td>Initial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>After 10 hr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil filter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel filter</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Electromagnetic pump filter</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Air cleaner element</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Air cleaner urethane</td>
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<tr>
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<td>Looseness of screw in each section</td>
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</tr>
</tbody>
</table>

**14. Belt adjustment**

**14-1. Knife**

- Remove the knife shaft cover and adjust the tension of the belt put on the B3 V-pulley 30150 and knife shaft V-pulley by using the tension pulley adjusting bolt.
- Adjust the tension of the belt put on the B3 V-pulley 30175 and B6 V-pulley by using the lever adjuster.
- Adjust the tension of the belt put on the B6 V-pulley and engine pulley by using the knife adjusting rod.

**14-2. Hydraulic pump**

Adjust the tension of the belt put on the engine pulley and hydraulic pump pulley by using the lever adjuster.
15. Crawler

15-1. Crawler tension

Adjust the crawler tension by supplying grease to the grease cylinder. Make adjustment so that the crawler tension will be the same on both sides.

**CAUTION**

Excessive crawler tension will cause the front roller to lose the clearance, causing the crawler to come off easily and the machine to break easily. Exercise care.

15-2. Installation - removal of crawler

When removing the crawler, loosen the M14 bolt (width across flats: 22) on the grease cylinder, remove the grease, return the front roller to the original position, lift the crawler that is to be removed above the ground, and then remove the crawler. Reverse the order of removal when installing the crawler. Refer to the preceding paragraph for the crawler tension.

15-3. Prevention of crawler tearing loose

Check that the crawler is not slackened and the crawler tension is adjusted appropriately.

15-4. Greasing the crawler

The seesaw roller fulcrum shaft in the crawler section is provided with a grease nipple. Supply grease to the nipple every 50 hours. Use Kyodo Yushi Excelite EP No.2 (ISO VG2) or its equivalent. (Refer to “6-4. Lubrication of friction surface of each part”)

16. Adjustment of traveling section

Conduct the following work before adjusting the traveling section:

1. Remove the crawlers on both sides, or place the machine on a stable base to lift the crawlers on both sides.
2. Remove the rear cover.

**CAUTION**

When lifting the machine, be sure to use an appropriate support to completely secure the machine.
16-1. Adjustment of neutral position of piston pump

① Loosen the mounting bolts of the neutral lever mounting bases for the pump on both sides to keep the bolts loose.
Return the side brake lever to unlock the traveling lever.
② Start the engine, and move the neutral lever mounting bases for the pump by using a stick, etc. to determine the neutral position.

⚠️ CAUTION

The engine is rotating. Be careful of the pulley, belt, sprocket (crawler), etc. during operation.

③ When the neutral positions of both bases are determined, stop the engine and tighten the mounting bolts.
④ Start the engine again to check that the sprocket (crawler) will not rotate.

16-2. Adjustment of neutral position of traveling lever

① Loosen all the lock nuts of the M10 right-/left-hand thread rods.
② Turn the two rods at right and left to adjust the length so that the lock shaft of the traveling lever will be set in the neutral stopper groove when the side brake is pulled.
③ Tighten all the lock nuts of the rods and check that the traveling lever is locked completely when the side brake lever is pulled and that the traveling lever is unlocked quickly when the side brake lever is returned.
16-3. Confirmation after adjustment

After the above-mentioned adjustment, confirm the following:
① Stop the engine and move the respective levers to check for interference.
② Check that the machine is in the neutral position and will not move even if the engine is in the full-throttle state.
   (When the side brake lever is pulled and returned)
③ After moving the traveling lever to move the machine, release the traveling lever, and check that the machine will not move.

After the above-mentioned adjustment, confirm the following:

17. Engine

Precautions as to handling of engine

a) Use diesel fuel as the engine fuel.
b) The machine is to be operated under severe conditions such as vibration, slopes, and dust.
   Change the entire engine oil 10 hours after the initial operation. Then while continuing inspection and replenishment before use, change the entire quantity every 50 hours thereafter.
   Change all the oil filters simultaneously as well.
   When using the machine in a dusty place, change oil and the oil filters more frequently.
   The quantity of the engine oil is 7.9 liters. Use the diesel engine oil in the service class CC or above specified by the API standard.
c) When air is sucked in the fuel system of a diesel engine, the engine will not be started.
   Inspect and maintain the diesel engine at all times to prevent entry of air into the fuel system. Operation will be difficult when the fuel filter and electromagnetic pump filter are clogged with dust or when water remains in them. Drain water or clean filters every 50 hours. Replace filters with new ones every 200 hours.
d) Cover the suction port of the air cleaner with polyurethane and cleaner cover at all times during operation. Be sure to clean the air cleaner element before operation, and replace the element with a new one every 200 hours.
e) Mix antiseptics (long-life coolant) into water, and put the mixture in the reserve tank up to the MAX position as a radiator cooling water. Change the cooling water every 50 hours. Check and supply the cooling water before operation. When the temperature is likely to drop below the freezing point, use an antifreeze mixture. When the radiator fins are clogged with dust, blow air to clean them.

18. Hoisting

Precautions as to hoisting

a) Qualification necessary to use a crane to hoist the machine
   For hoisting the machine, follow the appropriate laws of the country where it is hoisted.
b) Hoisting procedure
   ① Lower the mower portion until it touches the ground.
   ② Pull out the four hoisting hooks and secure them with pins. Hook the wire ropes completely with shackles. Use wire ropes with sufficient strength. Be sure to use four ropes of 2.5 m or more in length.
   ③ Pay attention to the position of the center of gravity during hoisting to balance the machine sufficiently. Do not approach the machine inadvertently during hoisting.
19. Attaching/detaching the mower portion

**CAUTION**
Be sure to install and remove the mower portion in a flat horizontal place. Stop the engine unless it is necessary to move the attachment mounting base up and down or to move the machine forward and backward.

19-1. Removal of attachment
(The numbers in [ ] in the text correspond to the parts catalog Nos.)
① Remove the intermediate shaft belt cover [17-44] and right crawler cover [6-47], and then remove the belt [7-30] that connects the machine and the mower portion.
② Remove the clip pin [6-75] and remove the lock pin [6-74].
③ Set the cylinder single-/double-acting changeover switch [12-40] in the "double-acting" position, and lower the attachment mounting base.
④ After confirming that the hitch sections are separated, slowly move the machine backward, and the operation is complete.

19-2. Installation of the mower portion
(The numbers in [ ] in the text correspond to the parts catalog Nos.)
① While engaging the hitch sections, slowly move the machine forward, and raise the attachment mounting base to engage the hitch sections.
② After confirming that the hitch sections are engaged completely, attach the lock pin [6-74] and secure it with the clip pin [6-75].
③ Set the cylinder single-/double-acting changeover switch [12-40] in the "single-acting" position.
④ After attaching the belt [7-30] and adjusting the tension, attach the right crawler cover [6-47] and intermediate shaft belt cover [17-44], and the operation is complete.

19-3. Hydraulic cylinder single-/double-acting changeover

**CAUTION**
Before starting ordinary operation, be sure to set the cylinder single-/double-acting changeover switch in the "single-acting" position, and change it to the "double-acting" position before installing or removing the mower portion.
Operation with the changeover switch in the "double-acting" position will cause the hitch sections to be subjected to a load when the machine climbs over a large stone or some other obstacle, causing machine failure.

20. Gear oil change for traveling motor

**CAUTION**
The speed reducer of the hydraulic motor for traveling is filled with 0.35 litter of gear oil. Flush the speed reducer 50 hours after initial operation and every 200 hours after that, and after each flushing, fill the speed reducer with a new gear oil (ISO VG140).
Unless the oil is changed according to the specified time, the motor failure will result. Be sure to change oil as specified.
21. Wiring diagram

**Starter switch connection**

<table>
<thead>
<tr>
<th>B</th>
<th>M</th>
<th>S</th>
<th>G2</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Safety switch**

- Red(AV0.85)
- Yellow(AV1.25)
- Yellow and red(AV1.25)
- Black and yellow(AV0.85)
- Black(AV1.25)
- Red and yellow(AV0.85)
- Blue(AV5)

**Control timer**

- Red(AV0.85)
- Yellow(AV0.85)
- Black(AV1.25)
- White(AV0.85)
- Green(AV0.85)

**Fuel pump**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Fuel gauge**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Thermo switch**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Thermo switch**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Oil pressure switch**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Brake release solenoid**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Engine charge lamp**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Solenoid valve for single-/double-acting changeover**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Alarm buzzer**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Water temperature gauge**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Emergency switch**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Safety relay**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Relay**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Glow timer**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Glow relay**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Glow plug**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Alternator**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Engine**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Solenoid valve for mowing height**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Sensor**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

**Glow plug**

- Red(AV0.85)
- Yellow(AV0.85)
- Blue(AV5)

---

**CAUTION**

The wires with the same number mark are connected to a grounding wire at the back of the electric equipment box.
22. Hydraulic circuit
## CONTENTS《Parts Catalogue》

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☆ Placing an order for parts

The parts in this parts list are controlled by a computer. Be sure to specify the type of machine, catalog No., code No., and part name when placing orders for parts in order to avoid delivery of wrong parts.

Example:

<table>
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<tr>
<th>Catalog No.</th>
<th>Code No.</th>
<th>Part name</th>
<th>Qty</th>
<th>Remarks</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>1-22</td>
<td>K1440000022</td>
<td>C-type grease nipple</td>
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<td></td>
<td>C3</td>
</tr>
</tbody>
</table>

☆ Location of parts in exploded diagram

The alphanumerics in the column of "Location" of the parts list indicate the location of the catalog No. of respective parts in the exploded diagram. In the case of the example shown above, C3 in the column of "Location" indicates that the catalog No. of the part is shown in the area where the slanted lines are overlapped as the diagram below indicates.

When C3 is shown in the column of "Location" of the parts list, the part No. will be found in the area where slanted lines are overlapped.
<table>
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<th>Catalog No.</th>
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<th>Location</th>
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<tr>
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<td>K0105140002</td>
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<td>C4,E3 etc.</td>
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<td>D4</td>
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<td>C3</td>
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<th>Part Name</th>
<th>Qty</th>
<th>Remarks</th>
<th>Location</th>
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<tr>
<td>1-31</td>
<td>K0180100002</td>
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<td>D3,D4</td>
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HMA1560 - 1720
12. Electric equipment

15. Hydraulic tank

Engine
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14. Hydraulic pump

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**Remarks:**

- B-type grease nipple
- Mowing height wire mounting clamp
- Adapter height wire fulcrum pin
- Mowing height wire 1900
- Cylinder mounting shaft 82.5 with groove
- Mowing height wire fulcrum pin
- Different-diameter nipple PT3/8PF1/4
- Special PT adapter MO-JS-19
- Clamp 13-32
- Filler port breather FA-50
- PT adapter M type
- Hydraulic oil mark
- 90 elbow 1033-12
- WP70-6 hose 3-1500
- Male-female elbow STE PT1/2
- Screw-in cross SA03
- Different-diameter elbow PT3/8PF1/4
- Taper plug with square head PT1/2
15. Hydraulic tank

Part of panel

14. Hydraulic pump

12. Electric equipment

Shell Tellus ST46

14. Hydraulic pump

Rear frame
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**Remarks**

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Date: February 1, 2005
Position: Development Dept. Manager
Name: Katsuaki Makino
Signed by: Katsuaki Makino

Complies with the provisions of the "Machinery" Directive 98/37/EC.

Machine Type No. HM1556
Model: Baronee HM1560

Hereby declares that the礼拜 KNIFE MOWER:

Aichi-ken, Japan
Toyokawa
1-26 Miyuki-chuo
Kyoosha Co., Ltd.

EC Declaration of Conformity