

# Bunker rake

## SP05

### [Movable Finishing Brush]

# Assembly and Installation manual

Serial No.#10001~

Thank you for purchasing this Baroness product.

This manual describes how to handle this product and make adjustments.

Please be sure to carefully read and fully understand the owner's manual and this manual before use.

This machine was shipped after a thorough inspection. However, the performance of the machine is greatly affected by handling and daily maintenance, such as inspection and adjustments before and after operation. Please handle this machine properly and perform necessary inspection and adjustments before and after operation in order for the product to fulfill its original function and ensure safe operation.

For operation and inspection, refer to the owner's manual. For necessary parts, refer to the parts catalogue.

KYOEISHA Co., Ltd.

**Caution**

The information described in this manual is subject to change without prior notice for improvement. When replacing parts, be sure to use genuine Baroness parts or parts designated by Kyoisha. Note that the Baroness product warranty may not apply to defects caused by the use of parts from other companies.



This symbol is accompanied by the word "Danger," "Warning," or "Caution." All labels with this symbol describe important safety precautions, so please read such labels carefully and only operate the machine after you have understood them completely. Failure to adequately follow these safety precautions may cause an accident.

**Danger:**

This symbol indicates that serious injury or death will occur if the warning is ignored.

**Warning:**

This symbol indicates that serious injury or death may occur if the warning is ignored.

**Caution:**

This symbol indicates that injury or damage to property may occur if the warning is ignored.



**When installing, removing, and adjusting optional equipment and attachments, observe the following safety instructions to ensure safe operation.**

1. Before installation, removal, adjustments, etc., park the machine on a level surface. Set the parking brake, stop the engine, and remove the key. Ensure that all the parts have come to a complete stop.
2. Keep your hands and feet away from moving parts. Avoid performing work with the engine running. Keep other people away from the machine during work.
3. If necessary, use appropriate chain blocks, hoists, or a jack. If the machine is lifted up, ensure that it is supported by jack stands or appropriate blocks.
4. When replacing parts or installing accessory parts, use genuine BARONESS parts.
5. Never start the engine in a closed room. Doing so could cause carbon monoxide poisoning.

## Installing Optional Equipment for the SP05

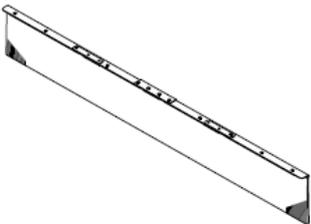
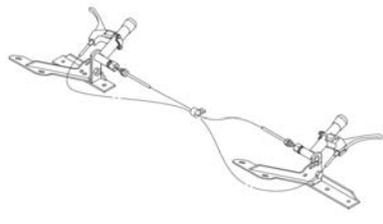
### Movable Finishing Brush

Intended use: The finishing brush section is used to level uneven bunker surfaces for fine and smooth finishing.

Operating width: 195 cm (77 in.)

Check that all parts are included. The following parts are included in the package.

Should any part be missing or damaged, please contact the dealer you purchased it from.

Finishing Brush Ass'y SP05---1601A0					
1	Finishing Brush Qty 1	2	Movable Arm Qty 1	3	8 Bolt 25 K0000080252 Qty 5
					
4	8S Washer K0200080002 Qty 5	5	8 Washer K5000080002 Qty 5	6	6 Bolt 20 K0000060202 Qty 2
					
7	6 Washer K5000060002 Qty 2	8	6S Washer K0200060002 Qty 2	9	6 Nut K0100060002 Qty 2
					

**Tightening torque**

Required tightening torque	Nominal diameter	Appropriate tightening torque [General bolts Strength class: 4.8]		
		N-m	kgf-cm	lb-in
○	M6	7-9	71.38~91.77	61.96~79.66
○	M8	14-19	142.76~193.74	123.91~168.17
-	M10	29-38	295.71~387.49	256.68~336.34

**Caution**

**When tightening bolts, refer to the above table. We will not be held responsible for any damage resulting from improper or excessive tightening, etc.**

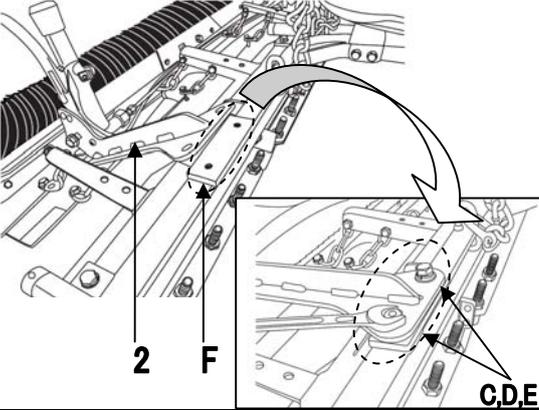
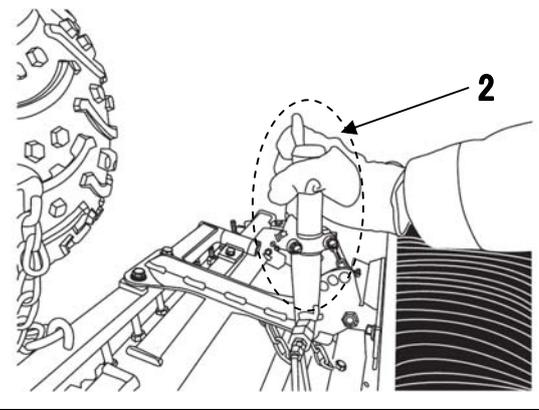
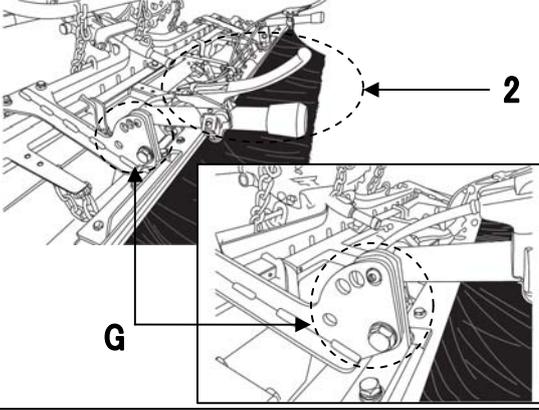
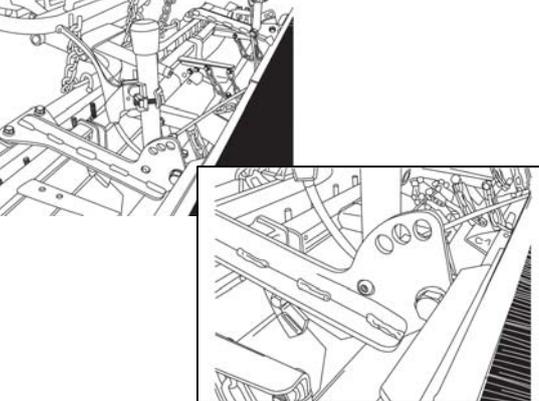
**SP05**

**Installing the Finishing Brush Section**

Steps	Illustrations	Descriptions
1		<p>Mount the movable arm (2) to the finishing brush (1) with the bolts (3) and (6), S washers (4) and (8), washers (5) and (7), and nut (9).</p>
2		<p>Put the washer (7), S washer (8), and nut (9) on the bolt (6) from the rear frame of the finishing brush (1).</p>
3		<p>Put the S washer (4) and washer (5) on the bolt (3) and pass the bolt (3) through the harness clip (A) to mount it to the center (B) of the finishing brush (1).</p>
4		<p>Lower the rake section to the floor. Remove the bolts (C), S washers (D), and washers (E).</p>

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**Installing the Finishing Brush Section**

Steps	Illustrations	Descriptions
5		<p>Secure the movable arm (2) that was installed on the finishing brush to the left and right sides of the rake pipe (F) with the removed bolts (C), S washers (D), and washers (E).</p>
6		<p>Raise the rake section. Hold the left and right clutch levers of the movable arm (2) and ensure that the movable arm moves smoothly and does not interfere with other parts.</p>
7		<p>The position of the finishing brush can be adjusted by holding the clutch levers of the movable arm (2) and adjusting part G. * In the illustration, the finishing brush is in the lowered position.</p>
8		<p>* In the illustration, the finishing brush is in the raised position.</p>

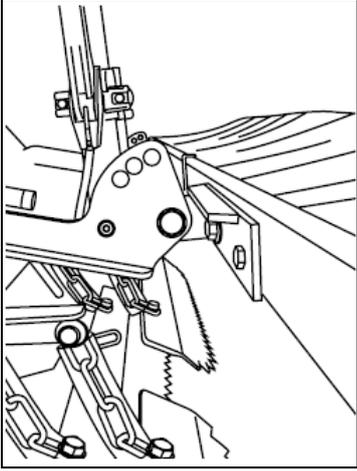
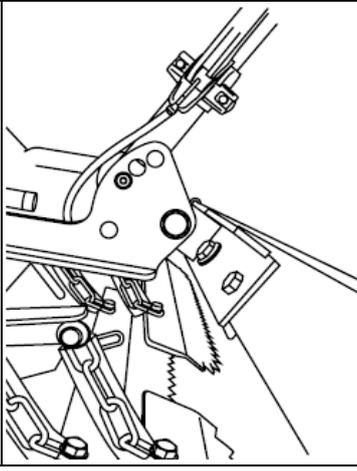
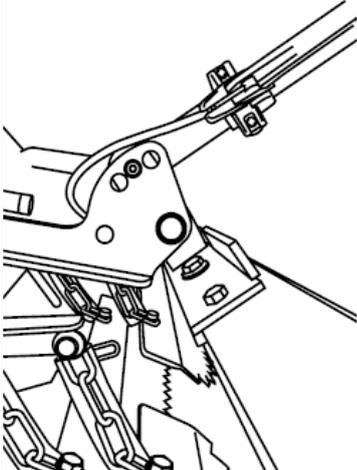
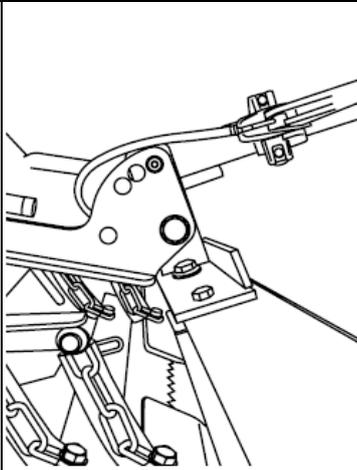
**Removing the Finishing Brush Section (See the illustrations for installing the finishing brush section.)**

1. Lower the rake section. Remove the bolts (C), S washers (D), and washers (E) from the left and right sides of the rake pipe, and then remove the movable arm (2) from the finishing brush section.
2. Remove the movable arm and re-mount the bolts (C), S washers (D), and washers (E) to the left and right sides of the rake pipe.

**Adjustment method**

Adjust the height of the brush from the ground to suit the bunker conditions.

The height of the brush from the ground can be adjusted to the 4 positions shown in the following figures.

1	Position: lowest Intended use: travel	2	Position: second from bottom Intended use: light finishing
			
3	Position: third from bottom Intended use: medium finishing (normal use)	4	Position: highest Intended use: heavy finishing
			



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Quality on Demand

 **KYOEISHA CO., LTD.**  
Head Office 1-26, Miyuki-cho, Toyokawa, Tel : (0533) 84-1390  
Aichi-Pref. 442-8530 Japan. Fax : (0533) 89-3623