

ROLLER BALL



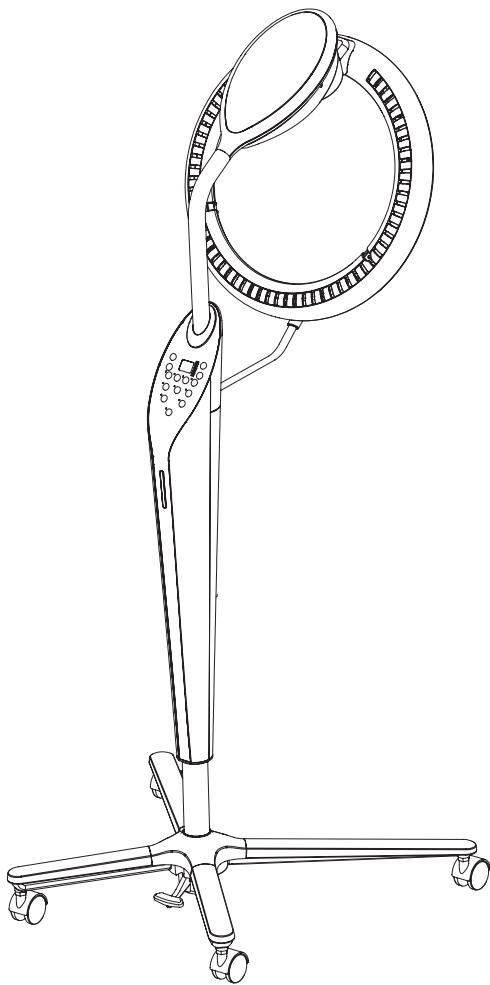
Model

AK — S 2 3 S

AK — S 2 3 S F

Operating Manual

Translation of the original instructions



Thank you for purchasing Takara Belmont product. Please read through this manual carefully before installing or using. These instructions provide important information for correct usage of the product to avoid personal injuries or property damages against you or your clients.

This product is intended for the exclusive use in hairdressing salons for their salon services, and must be operated or handled by the hairdressers or by their staff under supervision.

Table of Contents

Safety Precautions (to be strictly observed) ...	1
Name of Each Part	5
Location of Caution Label	6
Accessories	6
Control Panel	7
Description of Buttons and Indications ...	7
Outline of Modes	9
Error Codes	10
Setting	11
Operation Procedures	13
Rotation and Stopping of Ring during Operation...	15
Partial Heating	15
Customized Settings	16
Lamp Indication during Operation and Inputs from Buttons ...	16
Troubleshooting	17
Care and Maintenance	19
Daily Inspection Procedure	20
Consumable Parts	21
Dimensions and Specifications	22
Information	23

Safety Precautions (To be strictly observed)

Before Use

Carefully read through the Safety Precautions and use the product correctly. Furthermore, to use the product safely, be sure to perform the daily inspection following the procedures described in the “Daily Inspection Procedure” (page 20). In case the product is continually used without performing daily inspections, product failures or accidents may occur.

Precautions stated here are for the purpose of the following:

These precautions are provided for the safe use of this product and to prevent personal injury and harm to users and third parties. Please follow all of the precautions shown here, as they contain important information related to safety. TAKARA BELMONT bears no responsibility for personal injury or harm caused to the user or third parties in the event that the “Safety Precautions” have not been observed and an accident has occurred. If this is the case, the persons who use the product without observing the safety precautions will bear responsible for the injuries and damages.

Detailed information on cautionary marks is as explained below.

Be sure to read and understand their descriptions carefully before reading the main text.



DANGER

This mark warns the user that “ignorance of this display and improper use may result in critical risks of death or serious personal injury”.



WARNING

This mark warns the user that “ignorance of this display and improper use may cause death or serious personal injury”.



CAUTION

This mark warns the user that “ignorance of this display and improper use may cause slight to moderate personal injury or property damage”.



Indicates the general prohibited behaviors.



Indicates enforcement or instructions for general user behavior.



Indicates the prohibition of water splashing and use near water.



Indicates the instruction to disconnect the power plug from the outlet.



Indicates the prohibition of disassembly, repair, or modification.



Indicates the need for paying attention to high temperatures.



Indicates the need for paying attention to electrical shock.



Indicates the need for paying attention to bursting of parts.



MANUFACTURER



WARNING














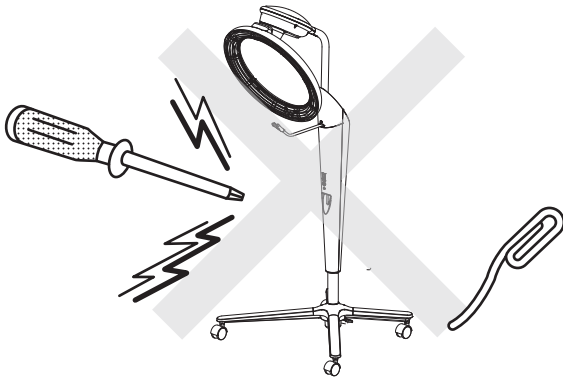
Never touch the inside of the main unit.



Never touch the inside of the product. There is a possibility of electric shock. For maintenance and service of the product, be sure to contact the nearest dealer or Takara Belmont directly.

Safety Precautions (To be strictly observed)

WARNING

<p>Be sure to execute the daily check.</p> <p> Execute the daily check according to the “Daily Inspection Procedure” described in this manual (page 20). Improper use or operation of the equipment may result in injuries or accidents including burns.</p>	<p>Do not apply water to the product.</p> <p> Do not apply water to the main unit directly nor wipe them with a wet cloth. Neglecting this warning may result in an electrical shock or ignition.</p>
<p>Warning concerning Power Supply.</p> <p> Be sure to disconnect the power plug from the outlet after closing the shop for the day or when the product is not used for a long period of time, such as on holidays, etc. Neglecting this caution may result in an electrical fire due to deteriorated insulation.</p> <p> Be sure to turn off the power of the main unit each time the work is completed. Be sure to disconnect the power plug before moving the product.</p> <p> If the pins or the area near the pins of the power plug are contaminated with waste hair or chemical agent, wipe the area thoroughly with a dry cloth.</p>	<p>Never disassemble or repair the product by yourself.</p> <p> Persons other than the repair engineer must not disassemble, repair, or modify the product. Neglecting this warning may cause ignition or abnormal operation resulting in physical injuries.</p> <p>Disconnect the power plug before fixing up the equipment.</p> <p> Be sure to disconnect the power plug when fixing the product. Do not disconnect and connect the power plug with wet hands. Neglecting this warning may result in an electrical shock or injuries.</p> <p>Shocks to the equipment in operation.</p> <p> Do not expose the product to shocks or impacts during operation. Neglecting this warning may result in falling of the product, thus causing electric shock, fire, breakage, or injuries.</p>
<p>Do not step on or lean over the main unit or the stand.</p> <p> The stand is provided with casters. Neglecting this warning may result in falling of the product, thus causing an electric shock, fire, or damage.</p>	<p>Do not operate the product in a tilted state.</p> <p> Incorrect detection by the infrared thermal sensor may cause abnormal heating of the customer's head. In addition, falling of the equipment may result in electric shock, fire, burns, or damage.</p>
<p>Do not allow the customer's hair or skin to contact the heater guard.</p> <p> Be careful to avoid allowing the hair or the skin of the customer to contact the heater guard while the customer dozes during operation or after using the Roller Ball. Neglecting this warning may result in a burn injuries.</p> 	<p>Do not insert a metal object into the ring.</p> <p> Do not insert a metal object, such as a pin or the like, into the ring to remove dust accumulated in the slit, etc., when fixing the Roller Ball. Neglecting this warning may result in an electrical shock or ignition caused by an electrical short circuit.</p> 

Safety Precautions (To be strictly observed)

⚠ CAUTION

Handling of Power Cord.



When disconnecting the power plug, do not hold it at the cord, but pull it off while holding the plug at the end of the cord.



Be sure to use the power cord fixing with the main unit with the supplied screws (see page 5). Neglecting this caution may result in fire or electric shock.



If the power cord or the power plug is damaged or when the connection with the wall outlet is loose, do not use the cord or the plug.



Do not move the main unit by holding the power cord. Do not damage, break, forcibly bend, twist, pull, or bundle the cord. Furthermore, putting a heavy object on the cord, jamming the cord in objects, or modifying the cord will damage the cord resulting in fire or electric shock.

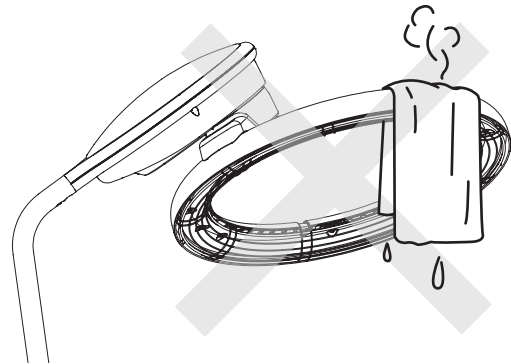


When moving the main unit, be sure to do this after disconnecting the power plug. The power cord may tangle, thereby resulting in falling or breakage of the product.

Do not dry a towel on the rotation ring.



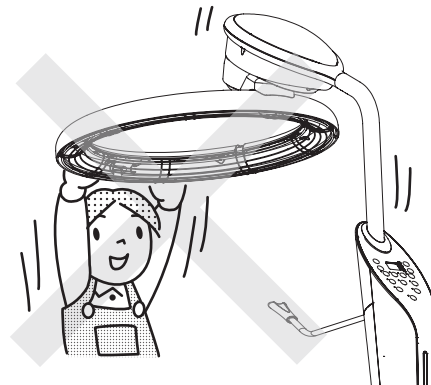
Do not dry wet objects such as a wet towel on the rotation ring of the Roller Ball. Neglecting this caution may result in burning of the towel, etc.



Do not suspend from a shaft or a stand.



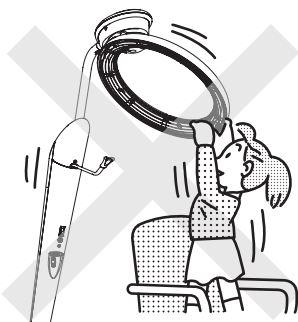
Do not go up or suspend from the shaft or the stand of the Roller Ball. Neglecting this caution may cause falling, tumbling, or breakage of product resulting in injuries.



Do not allow a child to touch the Roller Ball.



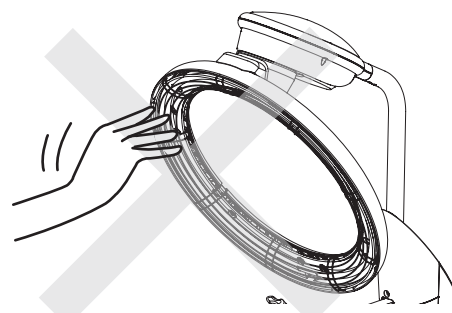
Do not allow a child to touch the Roller Ball. Neglecting this caution may cause falling, deformation, or breakage of the Roller Ball resulting in a burn injury.



Do not touch the ring during operation or right after the use.



Do not touch the ring, including the ring heater, heater guard, reflector, etc., during operation or right after the use of the Roller Ball. Neglecting this caution may result in burn injuries.



Safety Precautions (To be strictly observed)



CAUTION

Do not move the product by holding it at the ring or the guide bar.



Do not move the product by holding it at the ring or the guide bar. Neglecting this caution may cause tumbling, deformation, or breakage of the product resulting in physical injuries. Be sure to move the product by holding it at the upper shaft when moving it.



Do not operate the product in a tilted state.



Do not operate the product in a tilted state. Wrong detection of the infrared thermal sensor may cause abnormal heating of the customer's head, or tumbling of the product may cause breakage of the product, fire, electric shock hazard, injuries, etc.

Think of the physical condition of the customer.



The head of the customer will become warm due to the heater during operation. If the customer experiences discomfort or feels sick, stop using the product. Particular attention should be given to those who are likely to feel dizzy, have high blood pressure, or are being treated by a doctor, and there is concern about the physical condition.

Use the polyethylene cap.

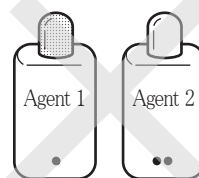


For the salon service using the dual-step tepid permanent wave agent or the color agent, use the polyethylene cap. Since the polyethylene cap can transmit infrared rays, the infrared thermal sensor can correctly measure the hair temperature, thereby enabling correct temperature control.

Do not use the product with the perming agents designated for use under normal temperatures.



Do not use the product with cold double-process perming agents. Neglecting this caution may cause skin disorders including a rash.



Do not expose the ring to shocks.



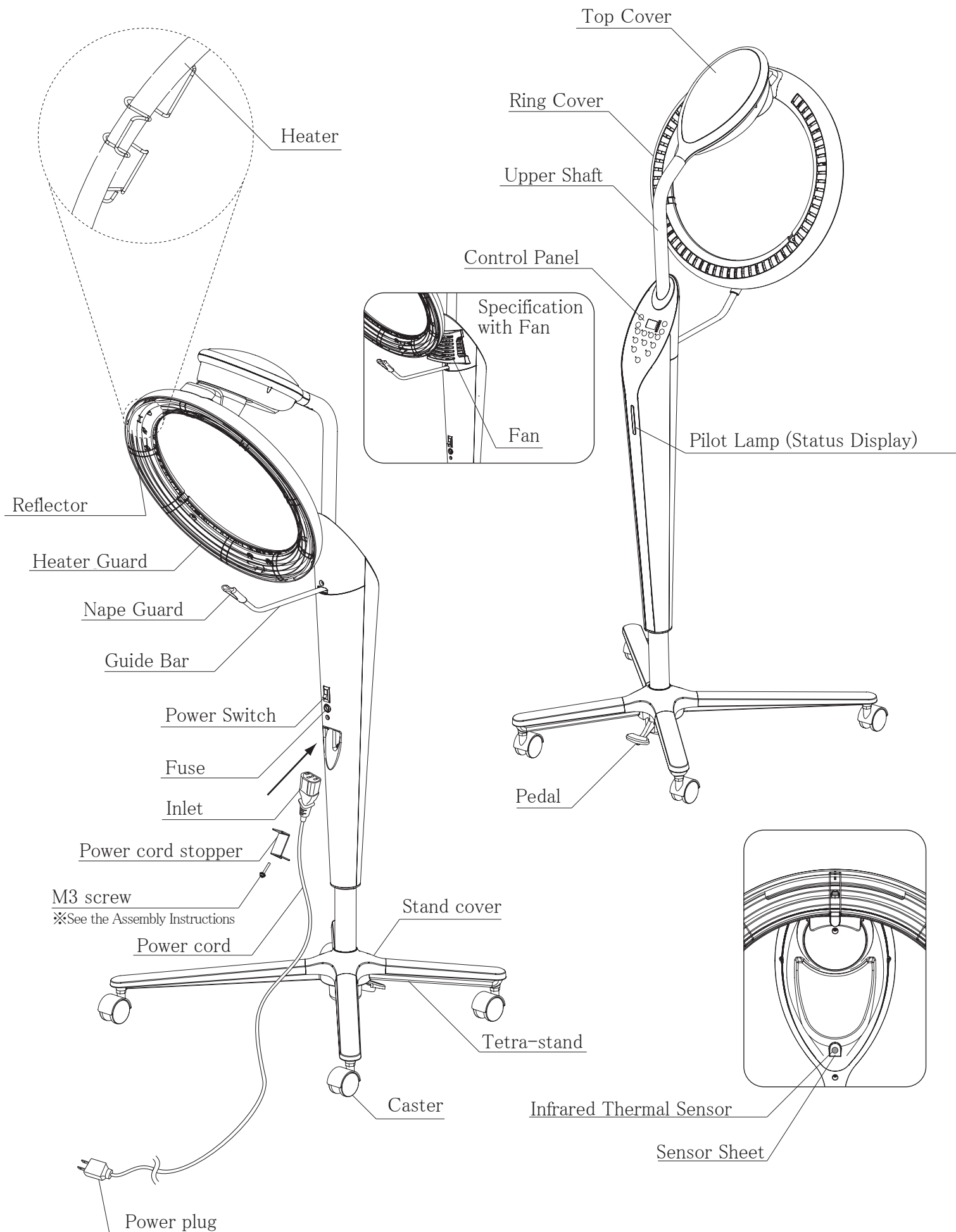
Do not expose the ring to shocks. Neglecting this warning may result in bursting of the heater. Pay careful attention to the handling of the product.

Do not allow the chemicals to adhere to the heater.

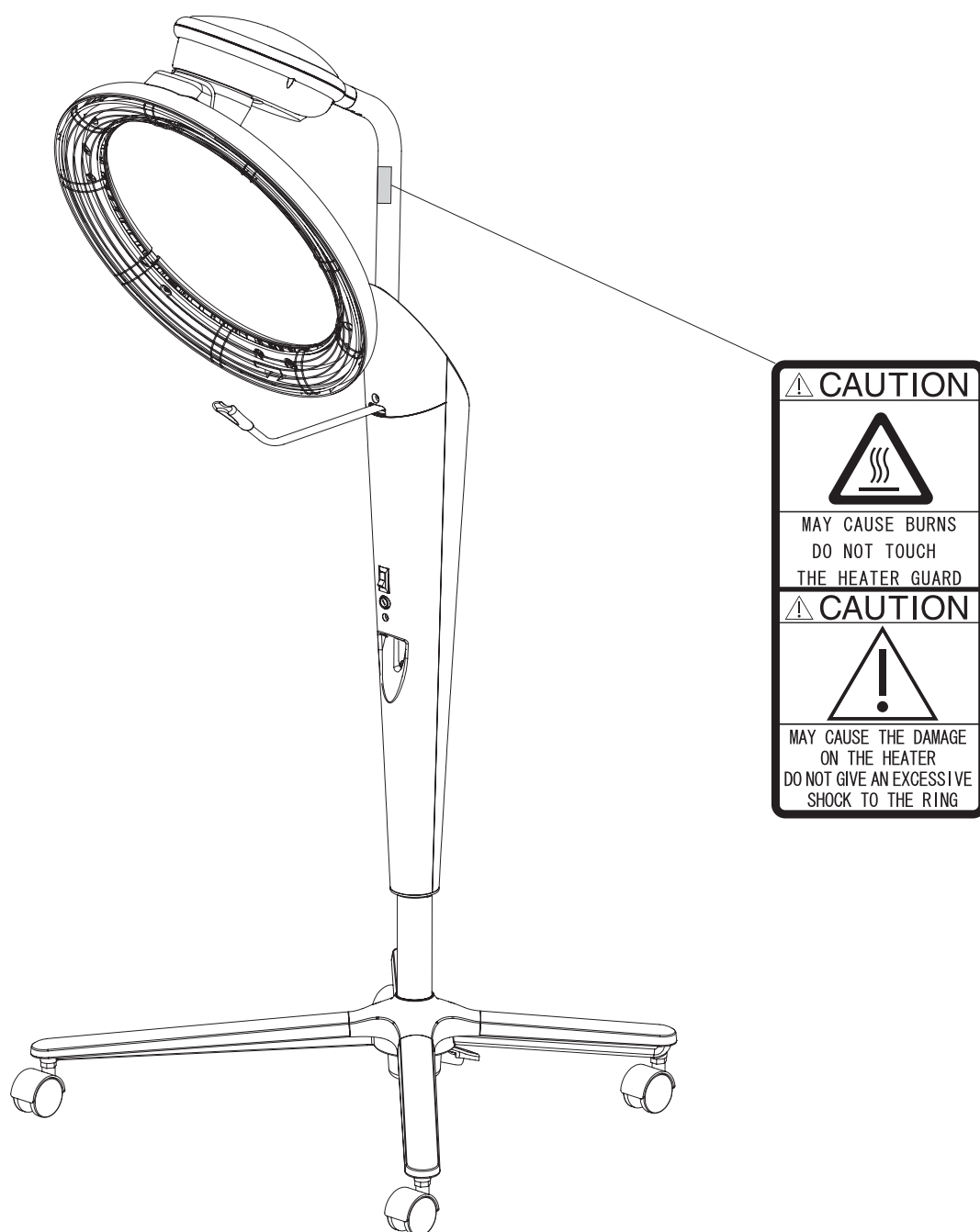


Use the product while paying attention not to allow the chemicals to adhere to the heater. Neglecting this caution may result in breakage of the heater due to deterioration.

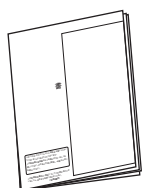
Name of Each Part



Location of Caution Label



Accessories

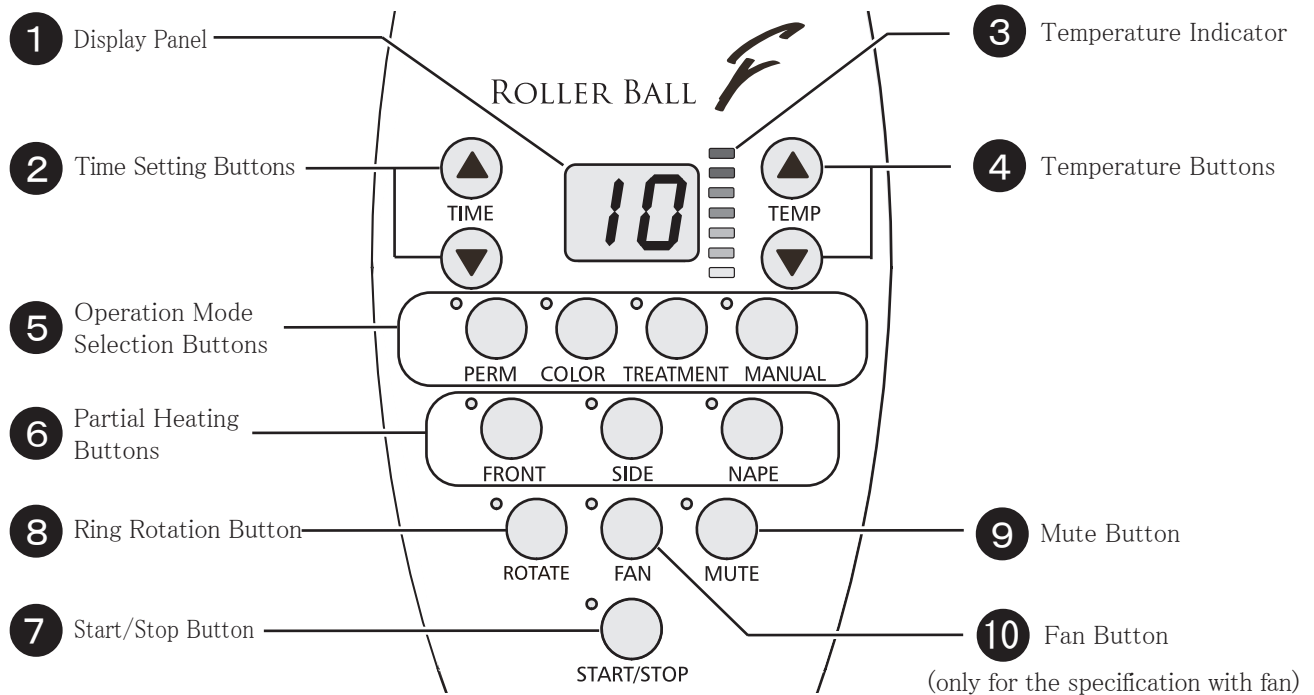


Operating Manual: 1 copy





















Assembly Instructions: 1 copy

Control Panel

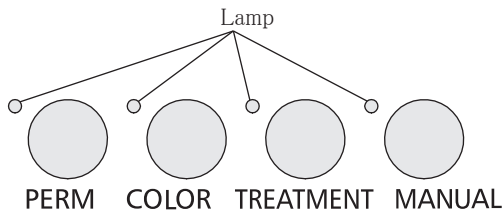


Description of Buttons and Indications

<p>1 Display Panel</p> <div style="display: flex; align-items: center;">  <div> <ul style="list-style-type: none"> - Display the preset operation time. - Display the remaining time. - Display the elapsed time after the completion of operation. </div> </div> <p>(Example)</p> <div style="display: flex; align-items: center;">  <div> <ul style="list-style-type: none"> - Display the error state. </div> </div> <p>(Example)</p> <div style="display: flex; align-items: center;">  <div> <ul style="list-style-type: none"> - Display the cooling operation remaining time. <p>※Example shows the cooling operation remaining time is 1 minute.</p> </div> </div> <p>(Example)</p>	<p>2 Time Setting Buttons</p> <p>- Use these buttons to change the time setting.</p> <div style="display: flex; align-items: center;">  <div> <p>Each press of the  (UP) or the  (DOWN) button changes the time in units of a minute. Keep pressing the button changes the time continuously in units of five minutes.</p> <p>* Maximum setup time: 60 minutes.</p> </div> </div> <p>TIME</p> <div style="display: flex; align-items: center;">  </div>
<p>3 Temperature Indicator</p> <p>- Indicate the current temperature setting.</p> <div style="display: flex;"> <div style="flex: 1;"> <p>[Display Color]</p> <ul style="list-style-type: none">  Red  Red  Orange  Orange  Yellow  Yellow  Green </div> <div style="flex: 1; padding-left: 10px;"> <p>The lamp illuminates for each 3°C from the bottom lamp (Green = 34° C). The lamp at the top (Red = 52° C) shows the maximum temperature.</p> </div> </div>	<p>4 Temperature Buttons</p> <p>- Use the button to change the temperature level.</p> <div style="display: flex; align-items: center;">  <div> <p>Each press of the  (UP) or the  (DOWN) button changes the temperature level by one step. The level can be set in seven steps.</p> </div> </div> <p>TEMP</p> <div style="display: flex; align-items: center;">  </div>

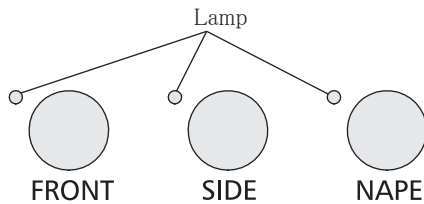
Description of Buttons and Indications

5 Operation Mode Selection Buttons and Lamps



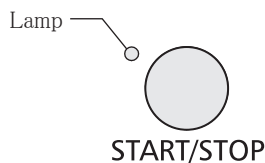
- A mode can be selected by pressing the appropriate button. To memorize the changed settings as the standard setup, keep pressing the button chosen for one second or longer. (See the section "Customized Settings" on page 16.)

6 Partial Heating Buttons and Lamps



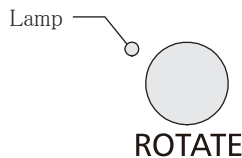
- Partial heating is available by pressing the appropriate button. (See the section "Partial Heating" on page 15.)

7 Start/Stop Button and Lamp



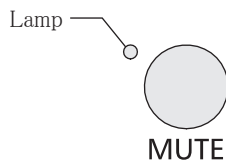
- Press this button to start the operation of each mode. While the product is in operation, the button functions as the stop (interruption) button.

8 Ring Rotation Button and Lamp



- Use the button to stop or rotate the ring at a desired position.
* Only for the manual mode

9 Mute Button and Lamp



- Use this button to enable the buzzer sound to announce key operations and process completion or to disable (mute) the sound.
* Once the button is pressed, the state of the sound chosen will be maintained until MUTE is pressed again.

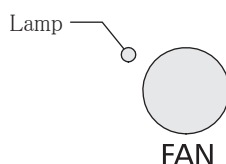
Sound enabled: The MUTE lamp is off.

Sound disabled: The MUTE lamp is on.

* Even under the MUTE status, the error sound will not be turned off.

10 Fan Button and Lamp

* Only for the specification with fan



- Use this button to enable (ON) or disable (OFF) the air blowing from the fan.

- The cooling operation will be continued for two minutes after completing the COLOR, PERM, or TREATMENT modes. In addition, air blowing from the fan is possible even during the operation.

Outline of Modes

Description of Modes

Mode	Use
PERM (Dual-step tepid permanent wave agent)	Use the mode for the heating process of the dual-step tepid permanent wave agent. Adjust the mode according to the hair condition, chemicals used, perming techniques, etc.
COLOR	Use the mode for the acceleration of the color agent. Adjust the mode according to the hair condition, chemical used, techniques, etc.
TREATMENT	Use the mode for the acceleration of hair treatment. Adjust the mode according to the hair condition, treatment agents used, etc.
MANUAL	This is the manual mode enabling use that fits the salon's unique techniques. The mode can also be used for partial perming or partial dyeing.

Default Setup of Modes

Mode	Standard Setup						Temperature Control System
	Temp. Level	Time	Heating Position	Rotation	Cooling Time	Fan Operation (during cooling operation) * Only for the specification with fan	
PERM (Dual-step tepid permanent wave agent)	3 (40°C)	8 min.	Front Side Nape	ON	Specification w/ Fan: 1 min. 2 min. Specification w/o Fan:	ON	Control with the infrared thermal sensor.
COLOR	4 (43°C)	10 min.	Front Side Nape	ON	Specification w/ Fan: 1 min. 2 min. Specification w/o Fan:	ON	
TREATMENT	4 (43°C)	10 min.	Front Side Nape	ON	Specification w/ Fan: 1 min. 2 min. Specification w/o Fan:	ON	
MANUAL	3 (40°C)	8 min.	Front Side Nape	ON	Specification w/ and w/o Fan: 1 min.	OFF	Control according to the programmed time control

Temperature control with infrared thermal sensor

In PERM (dual-step tepid permanent wave agent), COLOR, and TREATMENT modes, the infrared thermal sensor measures the temperature of customer's hair directly, and maintains it at the preset level.

Temperature level and temperature settings

The temperature indicator shows the temperatures with an increment of 3°C in the order of 34, 37, 40, 43, 46, 49, and 52 from the bottom lamp (green) to the top lamp (red).

* In manual mode, the temperature may vary according to the room temperatures, since the ON and the OFF time of the heater is controlled by timer.

Heating position

The ring heater of the rotating ring can be set to turn OFF only when it passes the designated part. The part of FRONT, SIDE, or NAPE whose lamp illuminates on the operation panel will be heated.
Example: Press the FRONT button to turn off the lamp, and the heater will be OFF only when the ring passes the front part while the ring is rotating.

Error Codes

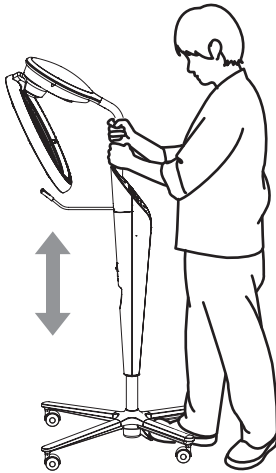
- If an error code appears on the display panel, take adequate action according to the following table.
- In the error state, the status display (pilot) lamp will blink.

Indication	Symptom	Actions to be Taken
The E0 code and the current remaining time indication will blink, alternately.	After operating for three minutes or longer, the surface of the customer's head is hotter than the preset temperature.	Check if the customer's head position is set too far from the heater. If it is, reset it at the correct position. (See page 11.) If the position is correct, check that the sensor sheet is clean. If the sheet is not clean due to agents, etc., wipe it off completely. Then, turn off the power, then on again and use it with the head set at the correct position. If the condition does not change after taking this action, contact the nearest dealer or Takara Belmont directly.
	The surface of the customer's head is not warm at all.	Contact the nearest dealer or Takara Belmont directly.
The E1 code and the current remaining time indication will blink, alternately.	The customer's head has moved from the current position, or the temperature of the surface of the head has decreased.	Check the position of the customer's head. Keep the product running. After a while, the error will be cancelled when the customer's head temperature reaches the setting temperature.
The E2 code blinks.	The ring movements are abnormal.	Turn off the power and then on again. If the error condition continues, contact the nearest dealer or Takara Belmont directly.
The E3 code blinks.	The surface of the customer's head is too hot.	Contact the nearest dealer or Takara Belmont directly.
The E8 code blinks.	The main unit is tilted at 30 degrees or over or it is down. Or, a strong shock is applied to the main unit.	Turn off the power and keep the main unit in vertical position. If the error appears again, contact the nearest dealer or Takara Belmont directly.

Setting

Be sure to observe the correct use to make the maximum performance of the Roller Ball and to ensure comfortable use by the customer.

Operation Procedures of the Product



Be sure to use the both hands to adjust the height.

Materials of Cap Used

For the salon service using the dual-step tepid permanent wave agent or the color agent, use the polyethylene cap. Since the polyethylene cap can transmit infrared rays, the infrared thermal sensor can correctly measure the hair temperature, thereby enabling correct temperature control.

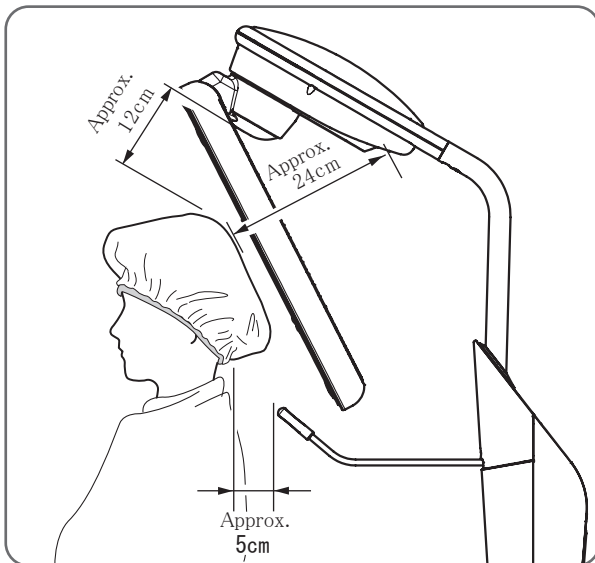


The use of caps, except those made of polyethylene, may cause abnormal temperature increases. When such caps are used, be sure to use the product in manual mode.

Safe Rotation Function of Ring

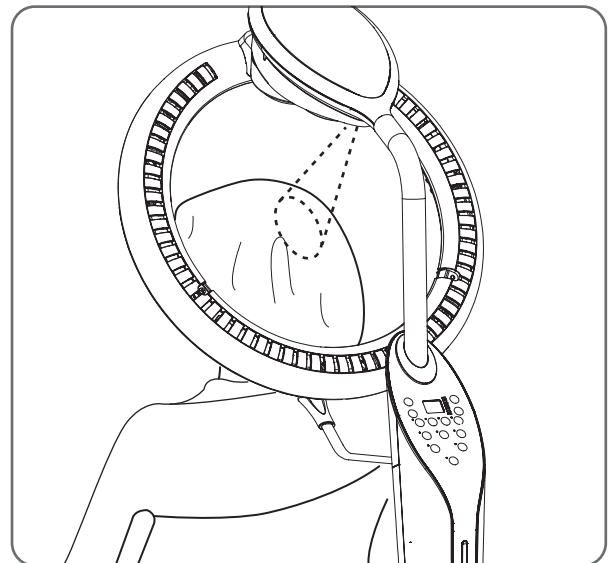
If any part of the customer's body or clothes is caught between the main unit and the ring of the Roller Ball during operation, the rotation clutch mechanism of the ring will work to stop rotation and prevent danger.

Correct Setting Position



Place the top of the head approximately 12 cm away from the pivot of the ring and approximately 24 cm away from the infrared thermal sensor.
(Approximately 5 cm between the nape guard and the nape).

Setting the Roller Ball in Correct Position



Position the nape guard 5 cm away from the customer's nape and set it at the center of the nape.

Move the chair up or down according to the seating height of the customer or move the Roller Ball main unit up or down with the pedal to adjust the height.



If the head of the customer is misaligned from the beginning of the operation, an alarm will sound about three minutes after initiation of operation, and the error code **E0** will be displayed.

⚠ CAUTION

If the customer feels sick while using the Roller Ball, immediately stop using the product.

(The far infrared rays from the Roller Ball will not affect the human body at all, but the customer may feel sick due to the heat if the customer is in poor health condition.)

Setting

Alarm notifying misalignment of head position



If an alarm sound is initiated, tell the customer to move back into the correct position.

(For the PERM, COLOR, and TREATMENT modes)

Misaligned position alarm!



When the equipment is operated with the customer in the correct position, the infrared temperature sensor directly measures the customer's head temperature to control it to the preset temperature. If the customer's head position continues to be in a significantly deviated position during operation, the sensor will detect the deviation to initiate the alarm warning of the misalignment. In this state, the condition indicator lamp will blink, and the current remaining time and the **E1** display will blink alternately on the timer display.

If the misaligned head position warning alarm is left unattended, no correct temperature control is possible, resulting in an undesired finish. If the warning alarm is initiated, be sure to tell the customer to move back into the correct position. When the customer's head is in the correct position, the error state is cancelled.

Customer's head temperature may take a while to reach the preset temperature. To quickly cancel the **E1** error, follow the instructions given in below <How to deal with an error> and restart the operation.

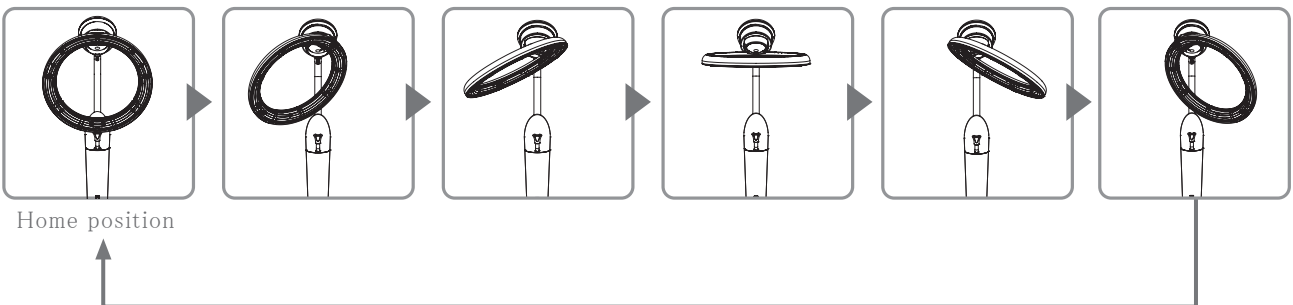
<How to deal with an error>

If **E0** or **E1** error occurred, follow the below instructions.

Press Start/Stop button to stop the operation. Reset the customer's head position to the correct position.

Press Start/Stop button again to restart operation. If the error still appears, turn off the power, unplug the unit, and contact the nearest dealer or our company directly.

Ring Rotation



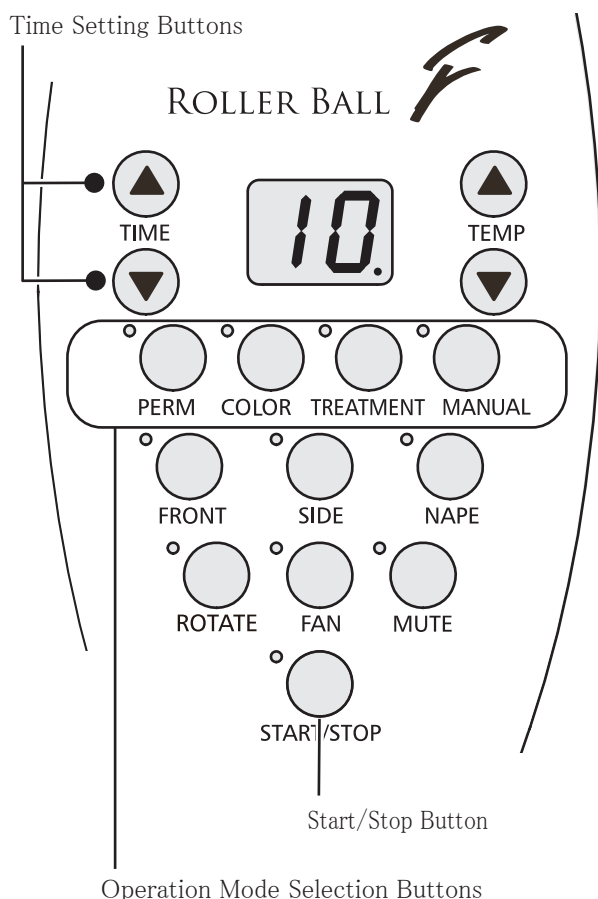
<Rotational of the Ring>

In the COLOR, PERM, and TREATMENT modes, the ring rotates about four times per minute over the customer's head while different parts of the ring lighting as it rotates. The rotation of the ring with different parts of lighting not only warms the entire head evenly, but makes the customer feel that the heating is mild.

Information

The ring may sometimes wobble during rotation, but this is not a failure.

Operation Procedures



1 Set the Roller Ball in the correct position.

If the unit is not set in the correct position, it will not work properly. (See page 11.)

2 Turn on the power switch.

When the power switch is turned on, all lamps will illuminate for one second, and then only the operation mode lamps will blink, showing the state of waiting for mode selection.

3 Select a mode.

Press the mode selection button. When the button is pressed, the lamp of selected button illuminates and the standard setting (temperature level, time, etc.) is displayed. Check the setting.



Changing the settings should be done according to the hair condition of the customer, chemicals used, process of the service, etc.

4 Press the Start/Stop button.

When the Start/Stop button is pressed, the ring begins rotating and operates according to the settings (temperature level, time, heating position). At this time, the pilot lamp (status display) will illuminate.

5 During Operation

During operation, the Start/Stop button illuminates. And the selected mode and the decimal point of time indication blink at intervals of one second, and the remaining time is displayed.



The heater is hot. Never touch the heater even when it is not glowing.

Returning the ring to the home position for another new use during the operation.

It is possible to interrupt the operation and select a new mode within the five minutes in order to use the product for a different customer.

To use the ring from the home position, follow the procedure below:

1. When the product is in the interrupted state, keep pressing the time setup ▽ button until the display time reaches 0.
2. Press the Start/Stop button twice.

Information

The head part of the product uses gears. The sliding friction noise of the gears fluctuates in terms of the tone quality and sound volume of the products.

Operating Procedures

[Changing the settings during operation]

Settings excluding mode selection can be changed during the operation.

※For the setting of ring rotation and stop, it can be changed only for manual mode.

[Interrupting the operation]

Press the Start/Stop button during operation to stop ring rotation and heater control, and the Start/Stop lamp blinks. The pilot lamp (status display) changes to blinking from illumination.

During interrupted operation, the setting can be changed. When the mode is changed, the operation mode shifts to the changed mode, and the operation is in the standby state.

Press the Start/Stop button within five minutes after interrupting the operation to resume operation. If the Start/Stop button is not pressed within five minutes, the mode will reset to the mode before starting operation.

[Warning of Head Position Misalignment]

(For COLOR, PERM, and TREATMENT modes)

If the customer's head moves from the correct position and the infrared heater is not heating the head correctly, the infrared thermal sensor will detect it and a warning alarm will sound every 30 seconds. If this happens, ask the customer to return to the original position. If this condition is not corrected, it may cause an unsatisfactory results.

6

Cooling

When the preset time has elapsed and the time indication is zero (0), the cooling operation will be started.

Specification w/o Fan

Cooling process continues for one minute.

- * During the cooling operation, the ring will rotate when the heater is OFF.
- * For the ring-fixed operation in manual mode, cooling operation is not executed.

Specification w/ Fan

Cooling process continues for two minutes.

During the cooling operation, cold air will be blown from the fan.

- * In manual mode, the fan will not operate during the cooling process, and as is the case with the specification w/o fan, the cooling time is one minute.

7

Time-up

When the preset time has elapsed, the time indication shows 0, the electronic alarm indicating a time-up will be heard, and the heater and the pilot lamp will go OFF. The ring will stop at the home position.

elapsed time will blink on

[Counting the elapsed time]

After the time-up, the elapsed time will blink on the display panel.

[Memory Function]

The elapsed time after time up is displayed up to 60 minutes. When the Start/Stop button is pressed during this time, the previous setting will be displayed. (This function is useful when checking the operating time and the finished result in comparison.) When the mode is changed, the memory is erased.

8

Be sure to turn off the power switch when finished.

Rotation and Stopping of Ring during Operation

Only for the Manual Mode

Operation	State of Ring Rotation Button during Operation	
	For regular use (Ring rotation button: ON)	For use where the ring rotation is stopped under the manual mode (Ring Rotation button: OFF)
During operation	The ring rotates. The heater is ON.	The ring stops at the position of the manual mode stop. The heater is ON.
When the operation is interrupted	The ring stops at the position when the button is pressed. The heater is OFF.	The ring remains in the stop state. The heater is OFF.
When the operation is resumed in five minutes after interruption	The ring starts to rotate. The heater is ON.	The ring remains in the stop state. The heater is ON.
During cooling time	The ring rotates. The heater is OFF.	*The cooling time is not provided for the fixed operation under the manual mode.
After cooling time	The ring rotates to the home position and stops there. The heater remains to be OFF.	

Partial Heating

When either of the heating positions (FRONT, SIDE or NAPE) is turned off, the temperature control is subject to the ON/OFF control of heater according to the programmed time. The temperature control with the infrared thermal sensor will not be executed.

1

Set the Roller Ball in the correct position.

If the unit is not set in the correct position, it will not work properly. (See page 11.)

2

Select a mode.

Press the operation mode selection button after turning on the power switch. At this time, check the temperature level and the time setting for the selected operation.

3

Select a heating position.

Press a partial heating button (FRONT, SIDE or NAPE).

*The heater of the rotating ring can be set to OFF only when it passes the designated part.

4

Press the Start/Stop button.

Press the Start/Stop button to rotate the ring under the selected conditions.

Customized Settings

1. Customizing Settings in Modes

It is possible to adjust the initial settings in each mode as required. (customized settings)
(The initial settings are displayed when the mode selection button is pressed.)

The customized settings are stored in memory even after turning off the power.

*During the operation or interrupted operation, the settings will not remain in memory.

1. Select the mode selection button in which you would like to customize the settings.
2. Change the setting for temperature, time, or heating position.
3. Keep pressing the mode button for one second or longer. An electronic beep sound will be heard, and the new settings are stored.
4. Release the finger from the mode button. The new settings are now stored.
5. Turn off the power, and then on again. Check that the settings are correct.

2. Reverting to the Default Settings

This procedure restores the default settings (factory settings).
(Factory setup: see page 9)

1. Turn on the power while pressing the Start/Stop button.
2. An alarm sound will be heard after one second, and the mode settings are restored to the default settings.
3. Release the finger from the Start/Stop button, and the procedure is completed. Check the settings.

Lamp Indication During Operation and Inputs from Button

Mode and Operation		START/STOP	PERM COLOR TREATMENT MANUAL	TEMP	TIME	FRONT SIDE NAPE	ROTATE	FAN ※Option
Power ON	Lamp Indication	1 sec → OFF	1 sec → Blink	1 sec → OFF	1 sec → OFF	1 sec → OFF	1 sec → OFF	1 sec → OFF
	Button Input	×	○	×	×	×	×	×
Before Operation	Lamp Indication	Blink	Selected mode 					
	Button Input	○	○	○	○	○	Manual only ○	○
During Operation	Lamp Indication		Selected mode 		Count down			
	Button Input	○	×	○	○	○	Manual only ○	○
During Interruption	Lamp Indication	Blink	Selected mode 		Blink			
	Button Input	○	○	○	○	○	Manual only ○	○
Cooling	Lamp Indication	Blink	Selected mode 	O F F	Blink Count down	O F F		
	Button Input	○	×	×	○	×	×	○
Completion	Lamp Indication	Blink	O F F	O F F	Blink Count up	O F F		O F F
	Button Input	○	×	×	×	×	×	×

Note: Items marked with the "○" accepts input from buttons, while items marked with the "×" do not accept input from buttons.

Note: The elapsed time after finishing the operation (cooling time) will be counted up to 60 minutes. Press the START/STOP button to reset the conditions to those at the time of START.

Troubleshooting

When a problem cannot be rectified even if an inspection is made according to the table shown below, immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.

Phenomenon	Check Point	Countermeasures
No power. (No indication on the control panel)	Is the power plug correctly inserted into the wall outlet?	Insert the power plug firmly into the wall outlet.
	Is the power switch turned on?	Turn ON the power switch.
	Is the fuse on the distribution panel or the breaker switch in the salon in the ON position?	Set the fuse on the distribution panel or the turn ON the breaker switch.
	Is the fuse (located at the lower side of the main unit) blown?	Turn off the power switch, and contact the nearest dealer or Takara Belmont directly.
	Is the problem rectified when the power plug is disconnected and then inserted again?	Immediately stop using the product, turn off the power switch, disconnect the power plug, and then immediately contact the nearest dealer or Takara Belmont directly.
There is an odd smell from the heater.	Is a chemical adhered to the heater or the reflection plate?	If dust, dirt, or chemicals adhere to the heater or the reflector, the fouling will cause a transient fire and will emit smoke. When the amount of fouling is minute, the smoke will stop when the fire burns out, causing no damage to the product. If the fouling is substantial or the smoke does not stop, turn off the power switch and contact the nearest dealer or Takara Belmont directly.
There are clicking sounds from the ring.	—	The heater expands when it gets hot, and shrinks when it gets cold. The noise is caused as certain parts come into contact with each other. This is not a failure.
There is friction noise from the product while the ring is rotating. The sound volume or the tone quality sometimes differs in a same product.	—	The head part of the product uses gears. The sliding friction noise of the gears fluctuates in terms of the tone quality and sound volume by products. The fluctuation in tone quality and the friction noise are not failures.
The ring wobbles during rotation.	—	The head part of the product uses a motor. The ring may wobble due to vibrations of the motor, which is not a failure. Furthermore, the level of wobbling differs depending on the product.
The temperature level must have been lowered than before. (The temperature is hotter than before.)	Is the sensor sheet contaminated?	Remove the contamination on the surface of the sensor sheet according to the Section "Care and Maintenance" on page 19. If the problem is not be rectified, turn off the power switch and contact the nearest dealer or Takara Belmont directly.
The heater will not glow red. *Depending on the thermal control of the heater, the heater may seem as it is off.	Has the temperature around the heater increased?	When the air around the heater becomes warm, the heater has not failed. If the temperature has not risen, stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.

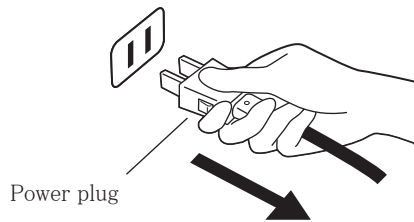
Troubleshooting

When a problem cannot be rectified even if an inspection is made according to the table shown below, immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.

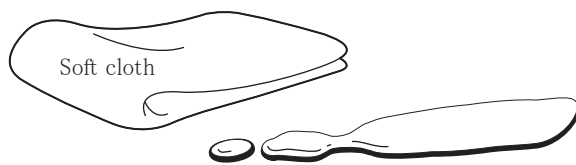
Phenomenon	Check Point	Countermeasures
The E0 error illuminates.	Check if the customer's head position is not set too far away from the correct position. (See page 11.)	If the error code appears continuously even where the customer's head set in the correct position, turn off the power and contact the nearest dealer or Takara Belmont directly.
The E1 error illuminates.	Check if the customer's head position is not set too far away from the correct position. (See page 12.)	If the error code appears continuously even where the customer's head set in the correct position, turn off the power and contact the nearest dealer or Takara Belmont directly.
The E2 error illuminates.	Check if anything such as the other appliance or the wall is in contact with the ring.	Move the product to the position where the ring does not contact with wall or other equipment, and turn off, then turn on the power. If the above-stated action does not rectify the symptom, turn off the power and contact the nearest dealer or Takara Belmont directly.
The E3 error illuminates.	Check if the Roller Ball is set in the correct position properly. When the customer's head may be set too far from the correct position, the infrared thermal sensor detects heat from a surrounding heater and so on, leading to the E3 error.	Turn on the power after setting the product in the correct position. If this does not rectify the symptom, turn off the power and contact the nearest dealer or Takara Belmont directly.
The E8 error illuminates.	Is the main unit slanted by 30 degrees or over or is it down? Alternatively, has the main unit experienced a strong impact?	Turn off the power and keep the main unit in vertical position. If the error appears again, contact the nearest dealer or Takara Belmont directly.

Care and Maintenance

Be sure to disconnect the power plug from the wall outlet before doing maintenance and cleaning of the product.



Splashing of water on the control panel or metal parts may result in product failure or rusting. Immediately dry the product with a soft cloth.

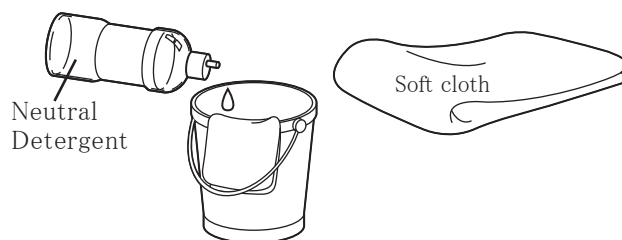


The product should not be exposed to moisture and water.

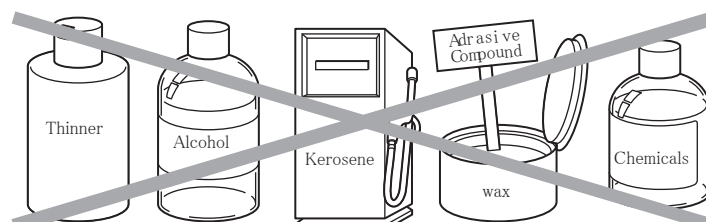
The plastic, plated, or painted parts should be wiped with a dry and soft cloth.



When fixed contamination or oil adheres to the product, wipe it off with a soft damp cloth with a water-diluted neutral detergent.



Never use volatile chemicals such as thinner, alcohol, gasoline, and kerosene; detergents containing organic materials; acidic-, alkaline- or chlorine-based detergents; and wax containing abrasive compound, sponge, scrubber, etc.



Daily Inspection Procedure



WARNING

Be sure to observe daily inspection according to the following guidelines. Continued use without observing the daily inspection may result in failure or accidents.

To use the product safely, be sure to observe the following inspections.

■ Daily Inspection Items (Pre-Operation Check)





Inspection Item	Inspection Procedures	If the inspection result is unacceptable
<input type="checkbox"/> Check if there is no deformation, breakage, or deterioration of the power plug or the power cord.	Check before operating the product: <input type="checkbox"/> There is no deformation breakage or deterioration on the power plug or the power cord. Check while the product is in operation (this is limited to the case that there is no deformation breakage or deterioration on the power plug or the power cord) <input type="checkbox"/> The power plug or the power cord may be heated when it is deteriorated. While the product is in use, touch the power plug and the power cord with a hand and make sure that they are not hot.	There is a possibility of electrical shock or burn injuries due to fire or electrical leakage. Since some parts must be replaced, immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.
<input type="checkbox"/> Check if there is no breakage or deterioration on exterior parts.	Visually check the entire product and check for any breakage or deterioration of the exterior parts, etc.	Restrictions in bringing out the expected functions of the product may result in accidents (injuries including burns). Immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.
<input type="checkbox"/> Check that the power switch operates correctly and the lamps on the control panel illuminate.	Check if there is no jamming when turning ON/OFF the power switch. In addition, check that all of the lamps illuminate right after turning on the power switch.	If the product is used with the power switch functioning improperly, failures such as unexpected shutdown of power during operation may occur. Furthermore, in the state that the lamps on the control panel do not illuminate, the product may not be used correctly because the setting state cannot be confirmed. If this is the case, immediately stop using the equipment, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.
<input type="checkbox"/> Check for any cracks or breakage on the heater.	Check the casters visually.	A crack or breakage may result in electrical shock or a burn injuries due to fire or electrical leakage. Since the parts must be replaced, immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.
<input type="checkbox"/> Check if there is no rattling in the head unit.	Raise the upper shaft when assembling the product, and check that the two fixing screws are attached tightly.	If the screws are loose, retighten. If rattling cannot be rectified by retightening the screws, contact the nearest dealer or Takara Belmont directly.
<input type="checkbox"/> Check if there is no rattling in the extension pipe.	Check that the two screws fixing the upper main unit and the extension pipe are attached tightly when assembling the product.	If the screws are loose, retighten. If rattling cannot be rectified by retightening the screws, contact the nearest dealer or Takara Belmont directly.

Consumable Parts

The consumable parts imply the parts that are subject to abrasion, deterioration, change in appearance, or breakage through use. If a part has been worn significantly or deteriorated, or if it is broken, the parts must be inspected or replaced. Immediately stop using the product, turn off the power switch, disconnect the power plug, and immediately contact the nearest dealer or Takara Belmont directly.

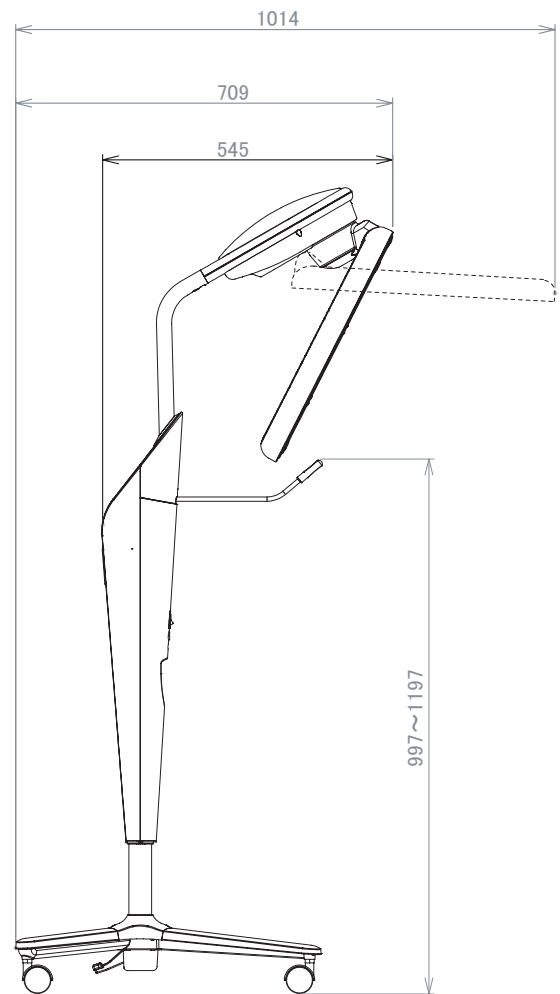
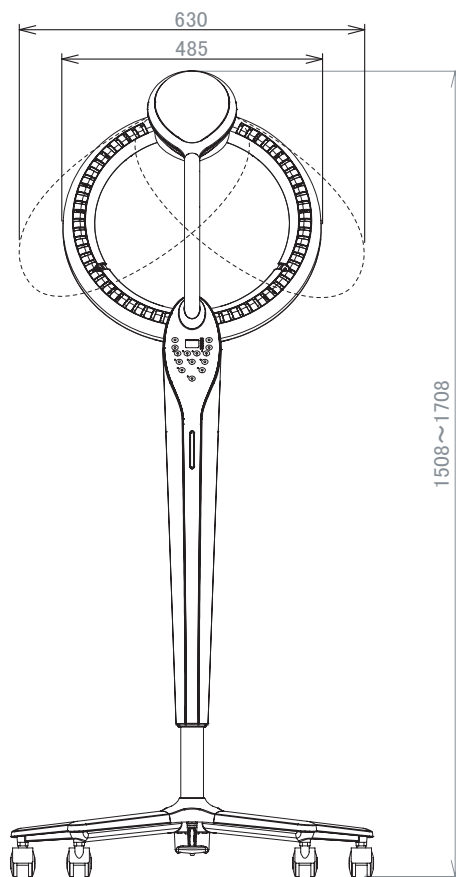
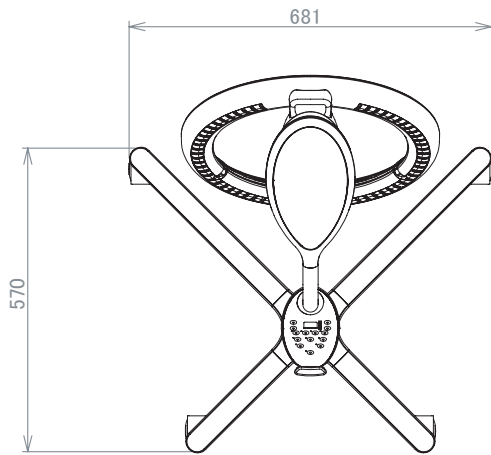
●Consumable Parts (The following parts must be purchased since they are excluded from the warranty.)

- ☐Power cord ☐Caster

<div>  Caution </div>	
<div>  Be careful of use. Children shall not play with the appliance. </div>	<div>  Be careful of use. The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. </div>
<div>  Be careful of use. Cleaning and user maintenance shall not be made by children without supervision. </div>	

Dimensions and Specifications

Dimensions -mm-



Specifications

-mm-

Model No.	AK-S23S/AK-S23SF		
Weight	15.6kg		
Safety device	Inclination sensor Rotation clutch mechanism Power supply fuse		
Cord length	3m		
Electrical requirements	AC110V	8.2A	50/60Hz
	AC120V	9.0A	
	AC220V	3.4A	
	AC230V	3.5A	
	AC240V	3.7A	

*Specifications are subject to change without notice.

IMPORTER INFORMATION

COUNTRY		REGISTERED PLACE OF BUSINESS & ADDRESS
GBR	Importer in UK	TAKARA BELMONT(U.K.)LTD. BELMONT HOUSE, ONE ST.ANDREWS WAY, BOW LONDON E3 3PA, ENGLAND
DEU	Importeur in Deutschland	TAKARA COMPANY EUROPE GmbH Industriestrasse 21, 61381 Friedrichsdorf, Germany
FRA	Importateur en France	TAKARA COMPAGNIE PARIS S.A.R.L. 56 rue des Hautes Pâtures 92009 NANTERRE Cedex France
ITA	Importatore in Italia	TAKARA BELMONT ITALY S.R.L. Via Marino Mazzacurati No.4/1, 42019 Scandiano RE, Italy

EU Declaration of Conformity

We hereby declare that the product listed below complies with the essential requirements of the EMC (electromagnetic compatibility) Directive : 2014/30/EU, Low Voltage Directive : 2014/35/EU, Machinery Directive : 2006/42/EC and RoHS Directive : 2011/65/EU based on category 11 of Annex I.

Product : HAIR PROCESSOR

Model : ROLLERBALL F

The product has been designed and manufactured in accordance with the European standards as the listed in the Declaration of Conformity.

UK DECLARATION OF CONFORMITY

We declare under sole responsibility that the device that is covered by the present declaration is in conformity with the following regulations and, if applicable, with any other relevant UK legislation that provides for the issuing of an UK declaration of conformity.

Product : HAIR PROCESSOR

Model : ROLLERBALL F

Regulations this product conforms to:

The Electrical Equipment (Safety) Regulations 2016, S.I. 2016/110

The Electromagnetic Compatibility Regulations 2016, S.I. 2016/1091

The Supply of Machinery (Safety) Regulations 2008, S.I. 2008/1597

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, S.I. 2012/3032 based on category 11 of PART 1, SCHEDULE I

EU Authorised representative

TAKARA COMPANY EUROPE GmbH

Industriestrasse 21, 61381

Friedrichsdorf, Germany



UK Authorised representative

TAKARA BELMONT(U.K.)LTD.

BELMONT HOUSE, ONE ST.ANDREWS WAY, BOW

LONDON E3 3PA, ENGLAND



TAKARA BELMONT CORPORATION

2-1-1, Higashishinsaibashi, Chuo-ku, Osaka, 542-0083, Japan