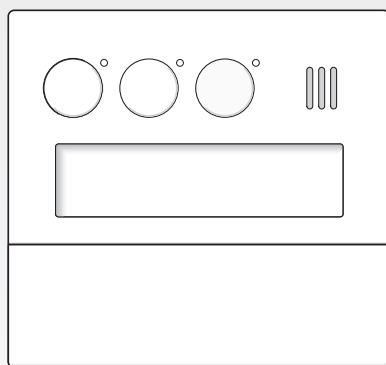


Remote controller

# USER'S MANUAL <Operation Guide>

**Model**

RC-9018M



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### Note to Owner:

This User's Manual provides additional details on the operation of this remote controller not covered in the water heater Owner's Guide. Keep this and all manuals provided with the water heater for future reference.

Thank you for purchasing this Remote controller.

\* Please read this User's Manual carefully to ensure appropriate use.

\* These operating instructions describe the functions of this remote controller.

Keep these instructions where they can be found whenever necessary, preferably in the same location as the Owner's Guide provided with the water heater.

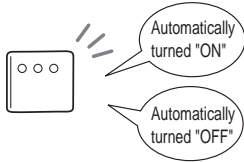
**NORITZ America Corporation**



# RC-9018M Operation Overview

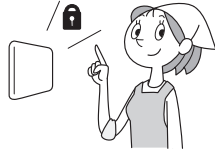
## Basic operation

It is possible to automatically turn the water heater "ON" or "OFF".



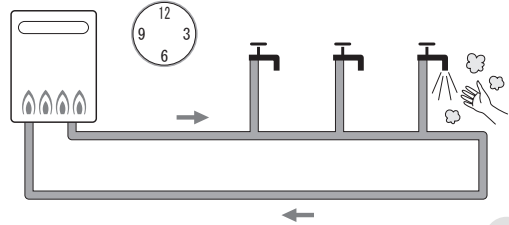
☞ P12

It is possible to lock remote controller operation.



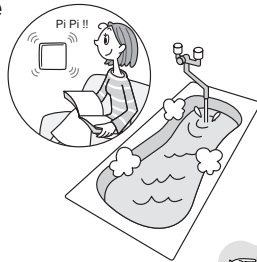
☞ P14

[For recirculation systems (System [ Rcirc ])]  
It is possible to circulate hot water only during preferred times of day.



☞ P20

[When using only one water heater:]  
It is possible to set the remote controller to alert the user when the bathtub has reached a preset fill volume to prevent overflowing.

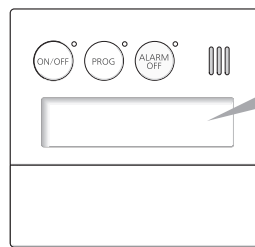


☞ P22

### Power Saving Mode

The initial setting is set to "Powersave dsply : No-1"

If you set "Powersave dsply" to "Yes" (☞ P15), unnecessary power consumption by the remote controller is prevented. If approximately ten minutes pass without using hot water or without pressing a button, the display of the remote controller turns off.



The display turns off (operation is "ON")

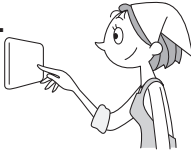
- \* If you use hot water or press a button, "Powersave dsply" is released.
- \* If you press the PROG button only once, "Powersave dsply" is released and the automatic program function will operate.
- \* If the setting temperature is set to 125°F/55°C or more, "Powersave dsply" will not function to prevent accidental scalding.
- \* If "Recirc" is operating, "Powersave dsply" will not function.

This setting is adjustable ☞ P15

## User Preferences

The remote controller can be customized based on the preference of the user in the following ways:

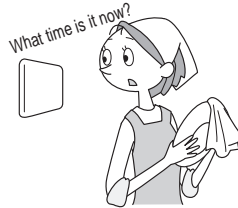
The set temperature can be restricted to a maximum level to prevent high temperature settings from being selected.



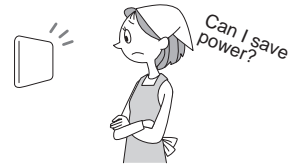
Adjusting the Maximum Output Temperature

➔ P15

The clock display can be shown even though the power ON/OFF button is set to "OFF".



The remote controller display can be turned off to save power.



Power Saving Modes

➔ P15

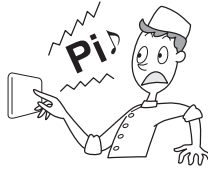
The brightness of the remote controller can be adjusted for better visibility.



Remote Controller Display Brightness Settings

➔ P16

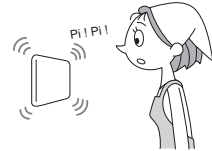
The remote controller can be muted so that it does not emit a tone when a button is pressed.



Muting the Remote Controller

➔ P16

The remote controller can be muted so that it does not emit a tone when an error occurs.



Error Tone Settings

➔ P16

### >> Additional Settings

▶ Draining the water heater (freeze prevention).

➔ P17 "Draining the Water Heater"

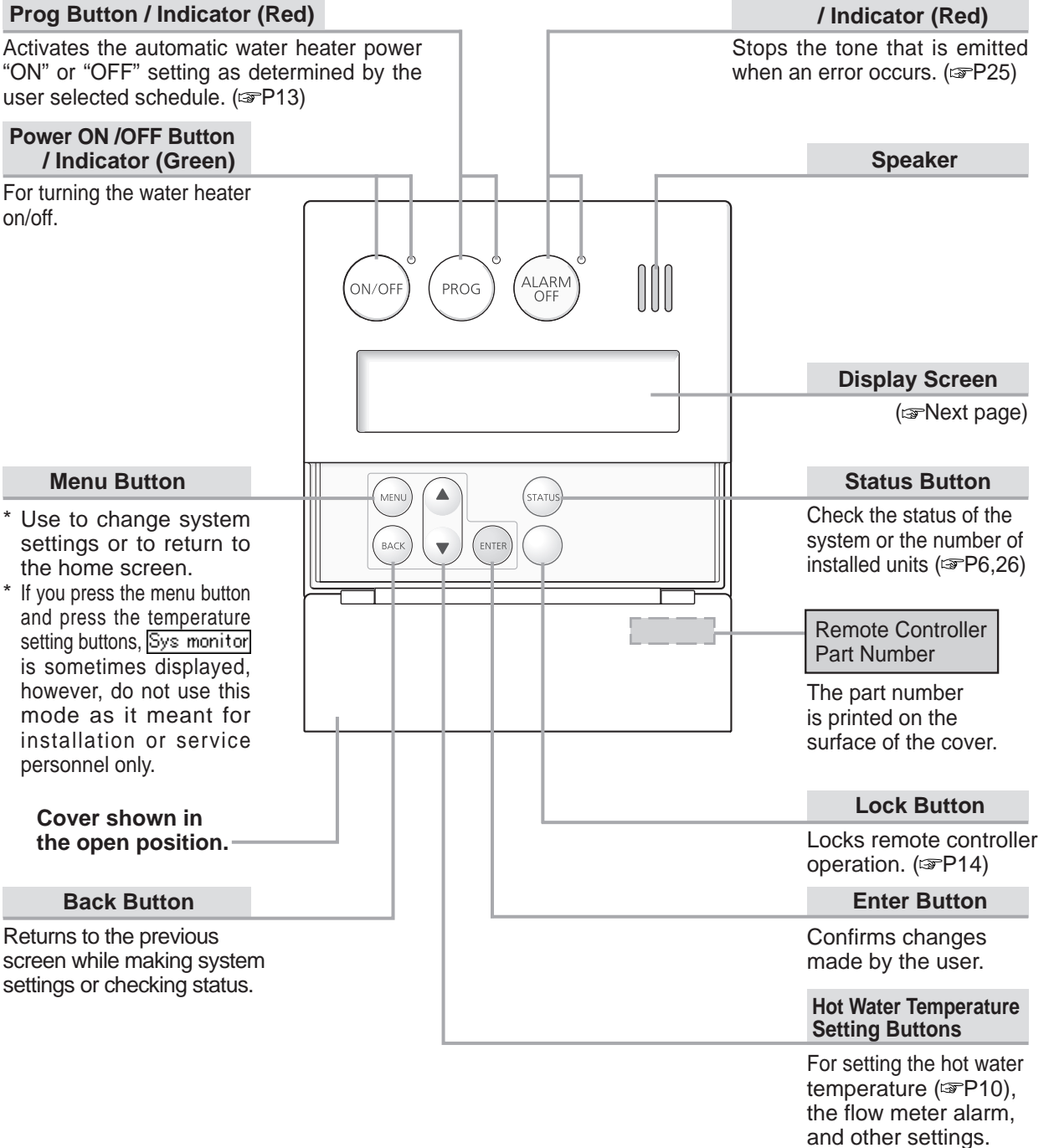
▶ Restoring default remote controller settings.

➔ P17 "Restoring Default Settings"

# General Parts

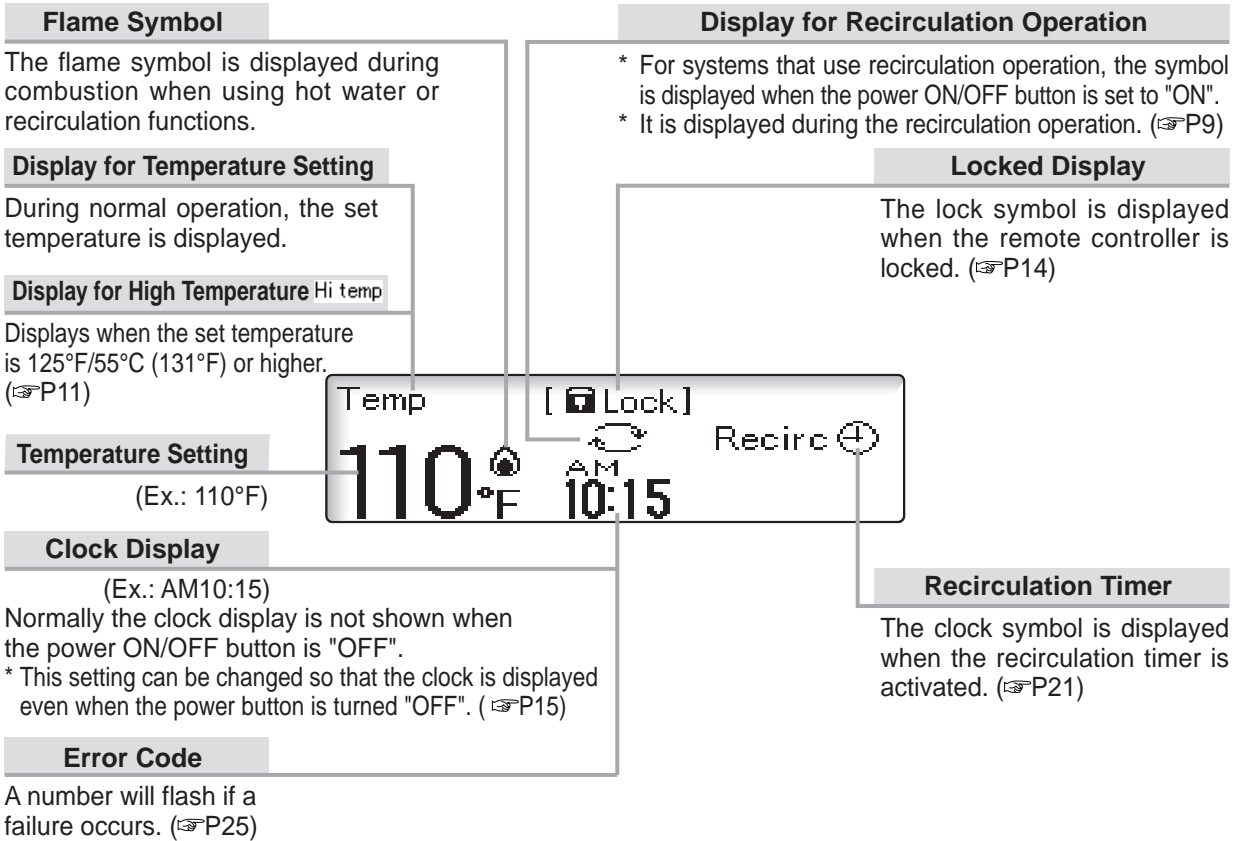
## Remote Controller (RC-9018M)

The remote controller will emit a tone when a button is pressed.




## ● Screen Display ●

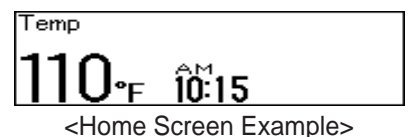
- \* The screen display shown below is for illustration purposes only. The actual display will vary depending on how the water heater is being used.
- \* After a button is pressed, the display will gradually become darker to prevent unnecessary power consumption by the remote controller.



Note: As shipped from the factory, the remote controller is set to display in °F and gallons. To adjust the display to °C and liters, refer to the Installation Manual.

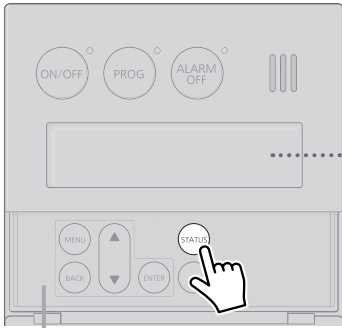
## ● What is the home screen? ●

The home screen is displayed when the  button is "ON". Normally, the hot water temperature and the clock, etc. are displayed.

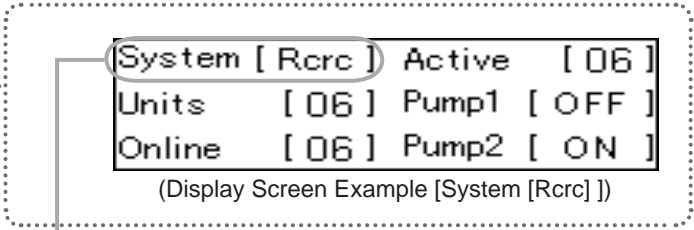






# System Check

If you press the  button, you can check the status of the system



Cover shown in the open position.



System Displayed on the Remote Controller	System Description
System [ Std ]	Water heater only operation.
System [ Rcrc ]	<ul style="list-style-type: none"> <li>* Water heater and recirculation operation.</li> <li>* During recirculation operation, hot water is always circulated in the piping to provide instant hot water when a fixture is opened.</li> </ul> <p>[If you set the  button to "ON",  is displayed. (If "synchro ON/OFF" is set to "ON". (P18))]</p>
System [ Tank ]	<ul style="list-style-type: none"> <li>* Water heater combined with a storage tank operation.</li> <li>* If a recirculation system is also installed, hot water is always circulated in the piping to provide instant hot water when a fixture is opened.</li> </ul> <p>[If you set the  button to "ON",  is displayed.]</p>

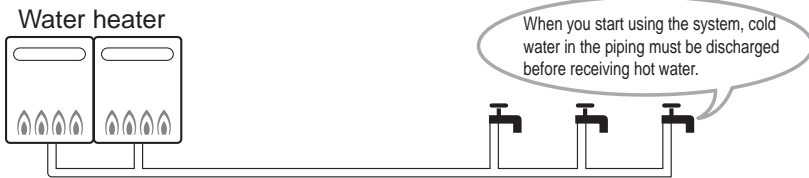


Depending on the configuration of your system, not all functions may be used.

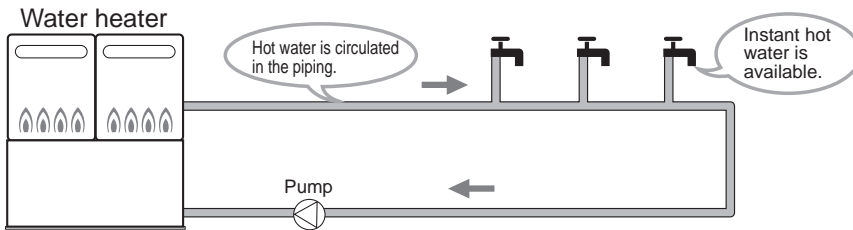
### General System Diagram

\* The number of water heaters, fixtures, and pumps will vary depending on the configuration of the hot water system.

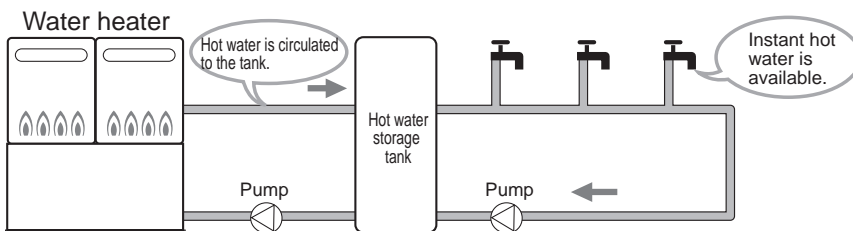
### Applicable Remote Controller Functions



Functions other than those shown on pages 18 to 21 can be used.

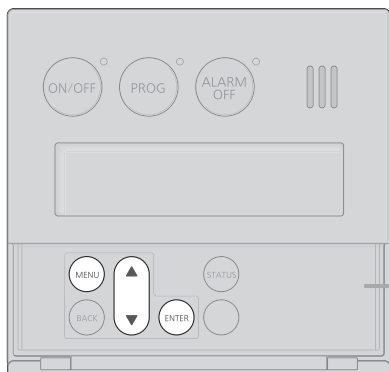


All functions can be used.



Functions other than those shown on pages 18 to 23 can be used.

# For All Systems Clock Adjustment



Cover shown in the open position.

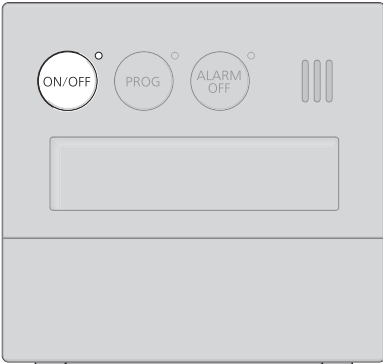
Operation	Screen Display	Description
<b>1</b> Press the  button inside the cover.		* This adjustment can be made regardless of whether the  button is ON/OFF.
<b>2</b> Press the  button.		
<b>3</b> <ol style="list-style-type: none"> <li>Use the  buttons to reset the clock.</li> <li>Press the  button to complete the clock setting.</li> </ol>	<ol style="list-style-type: none"> <li> <p>(Ex: AM10:15)</p> </li> <li> <p>The screen returns to the previous screen.</p> </li> </ol>	* The time changes in 1-minute increments with each press of the button, and then in 10-minute increments if the button is kept pressed down. * If the display is left untouched for approximately 20 seconds without pressing the  button, the setting will be completed. When the  button is turned ON, the home screen will be restored.

\* In the event of a power outage or after disconnecting power to the water heater, when power is restored, the clock on the display screen will show " - : - - " and the clock will need to be reset.

\* Normally, when the button is turned OFF, the clock display disappears, but it is possible to display the clock when the button is turned OFF by changing a setting. (P15)




# Using the Water Heater

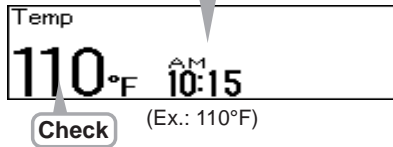




\* If System [ Tank ] is displayed, hot water will be discharged at the temperature of the storage tank.

Operation	Screen Display	Description
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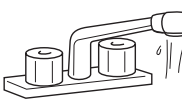
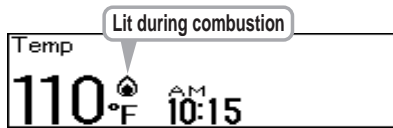
**1**  button is "ON".

For systems with recirculation operation,  is displayed here.



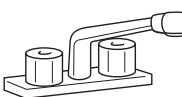
- \* The  indicator is lit.
- \* The previously set hot water supply temperature is shown.  
[For systems with recirculation operation]
- \* If you set the  button to "ON", recirculation operation is automatically started.
- \* The setting temperature displayed may vary from the actual temperature at the fixture depending on conditions such as season or length of piping.


**2** Turn on hot water.

● Turn off the hot water

Turn off hot water.




- \* During operation, the symbol  may be continuously lit.



**DANGER**

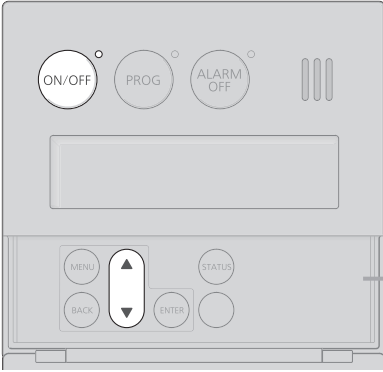


High Temperature

**To prevent scalding :**  
Hot Water Heater temperatures over 125°F (52°C) can cause severe burns instantly or death from scalding.

- Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask a professional person.
- When setting the unit to 125°F / 55°C (131°F) or higher, "Hi temp" will flash for 10 seconds and emit a tone as a high temperature warning.
- Take caution when using the unit again after setting to 125°F (52°C) or higher. Always check the set temperature before use.
- Do not allow anyone to change the water temperature while hot water is running.






# Setting Hot Water Temperature





Cover shown in the open position.



\* If System [ Tank ] is displayed, hot water will be discharged at the temperature of the storage tank.

Operation	Screen Display	Description
<p><b>1</b>  button is "ON".</p>	 <p>(Ex.: 110°F)</p>	<p>* The  indicator is lit.</p> <p>* The previously set hot water supply temperature is shown.</p>
<p><b>2</b> Set the temperature using the  buttons inside the cover.</p>	 <p>(Ex.: 105°F)</p>	

 <b>DANGER</b>	 High Temperature	<p><b>To prevent scalding :</b> Hot Water Heater temperatures over 125°F (52°C) can cause severe burns instantly or death from scalding.</p>
<ul style="list-style-type: none"> <li>• Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask a professional person.</li> <li>• When setting the unit to 125°F / 55°C (131°F) or higher, "Hi temp" will flash for 10 seconds and emit a tone as a high temperature warning.</li> <li>• Take caution when using the unit again after setting to 125°F (52°C) or higher. Always check the set temperature before use.</li> <li>• Do not allow anyone to change the water temperature while hot water is running.</li> </ul>		

## ● Temperature Setting Options ●

### For residential products beginning with the prefix "NR" :

■ **When using °F mode:** (°F: The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year. )

The maximum output temperature can be set using the remote controller. (☞ p.15)

100	105	110	115	120	125	130	135	140
Washing dishes, etc.	Shower, hot water supply, etc.				High temperature			

\*Initial factory setting is 110°F

■ **When using °C mode:** (°C (°F): The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year. )

The maximum output temperature can be set using the remote controller. (☞ p.15)

37	38	39	40	41	42	43	44	45	46	47	48	50	55	60
(99)	(100)	(102)	(104)	(106)	(108)	(109)	(111)	(113)	(115)	(117)	(118)	(122)	(131)	(140)
Washing dishes, etc.	Shower, hot water supply, etc.										High temperature			

\*Initial factory setting is 40°C (104°F)

If fixtures incorporate mixing valves, set the temperature higher than usual.

### For commercial products beginning with the prefix "NC" :

■ **When using °F mode:** (°F: The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year. )

100	105	110	115	120	125	130	135	140	145	150	160	170	185
Washing dishes, etc.	Shower, hot water supply, etc.				High temperature								

\*Initial factory setting is 110°F

■ **When using °C mode:** (°C (°F): The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year. )

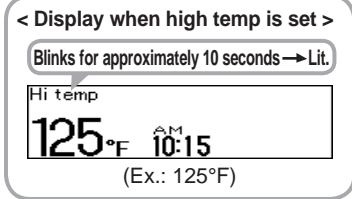
37	38	39	40	41	42	43	44	45	46	47	48	50	55	60	65	70	75	80	85
(99)	(100)	(102)	(104)	(106)	(108)	(109)	(111)	(113)	(115)	(117)	(118)	(122)	(131)	(140)	(149)	(158)	(167)	(176)	(185)
Washing dishes, etc.	Shower, hot water supply, etc.										High temperature								

\*Initial factory setting is 40°C (104°F)

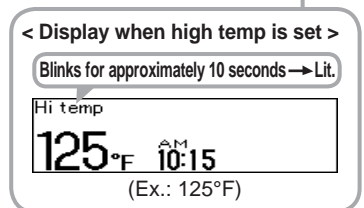
If fixtures incorporate mixing valves, set the temperature higher than usual.

\* For applications that occasionally require a higher temperature setting, locate the remote controller in a convenient location.

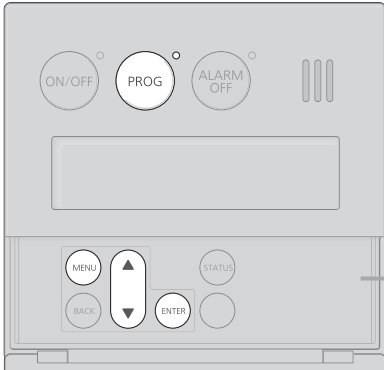
\* Consult local codes for minimum operating temperatures.



\* These settings are only available on commercial products.



- Hot water temperatures shown are approximate and may differ from the actual temperature at the fixture depending on external factors such as the season and length of piping in the system.
- When low temperatures are set (for washing dishes, etc.), if the incoming water temperature is already quite high, it may be difficult to ensure the outgoing water temperature is as per the setting.
- Please check the temperature displayed before using any hot water. Be especially careful using hot water after the set temperature has been changed.
- When the hot water temperature is adjusted using thermostat controlled water mixing valves, set the temperature on the remote controller approximately 20°F (10°C) higher than the required temperature to ensure the appropriate fixture temperature.



Cover shown in the open position.



- \* If you set the time to turn "ON" or "OFF" the button, the button is automatically turned "ON" or "OFF" at the set time every day by just turning the button "ON".
- \* It is also possible to set only "ON" or "OFF" operation.
- \* For recirculation systems, circulation is started or stopped according to the button condition, "ON" or "OFF".

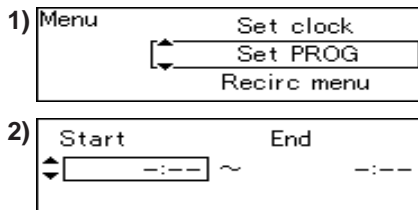
## Set the time to turn "ON" or "OFF" the button automatically

Operation	Screen Display	Description
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This example describes setting the "ON time" and "OFF time" to 10:00 am and 8:00 pm, respectively.

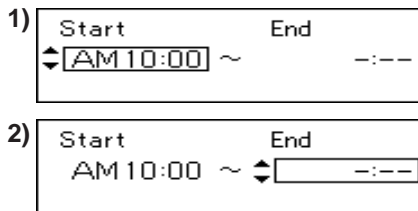
- Preparation**
1. Check that the current time is properly set. (Setting the time P.8)
  2. Check the button is set to "OFF"

- 1**
- 1) Press the button inside the cover, Select "Set PROG" using the buttons.
  - 2) Press the button.



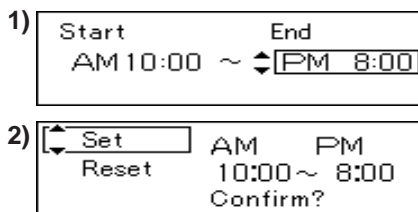
- \* You can set the time regardless if the button is "ON" or "OFF".
- \* The previously set "Start time" and "End time" are displayed.

- 2**
- 1) Set the ON time to "AM10:00" using the buttons.
  - 2) Press the button to complete the setting.



- \* The time changes in 10-minute increments with each press of the button, and then in 1-hour increments if the button is kept pressed down.
- \* If the previous setting is OK, press the button without setting "Start time".
- \* If you do not want to set the "Start time", select "- : -" (located between AM 11:50 and PM 0:00 settings).

- 3**
- 1) Set the OFF time to "PM8:00" using the buttons.
  - 2) Press the button to complete the setting.

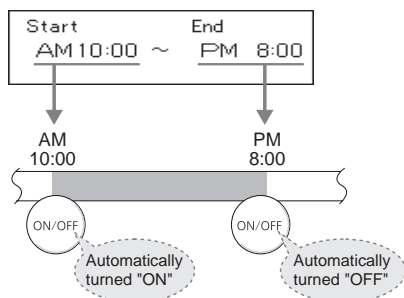


- \* The time changes in 10-minute increments with each press of the button, and then in 1-hour increments if the button is kept pressed down.
- \* If the previous setting is OK, press the button without setting "End time".
- \* If you do not want to set the "End time", select "- : -" (located between AM 11:50 and PM 0:00 settings).

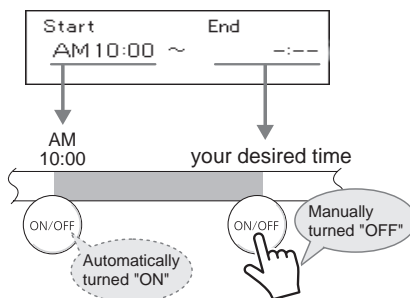
# Operation

**Hint for operation** Following this procedure allows for automated control of water heater operation without user interaction.  
 \* The setting time shown on the display of the remote controller is for example purposes only.

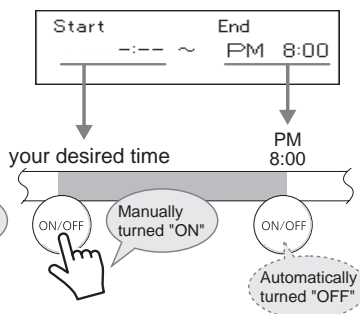
■ **Ex. 1: Both "ON" and "OFF" functions are automated.**



■ **Ex. 2: Only "ON" function is automated.**



■ **Ex. 3: Only "OFF" function is automated.**



Operation	Screen Display	Description
<p><b>4</b> Check "Set" is selected, and then press  button to confirm all settings.</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;">Set complete</div>	<ul style="list-style-type: none"> <li>* If you do not press  button, the time setting is not completed.</li> <li>* If you want to change "ON/OFF" time, select "Reset" and then press the  button, return to step 2.</li> </ul>

## Activate Automatic Operation

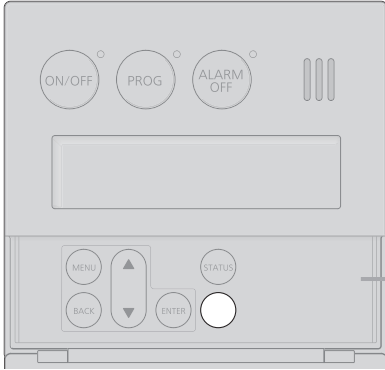
Operation	Screen Display	Description
<p><b>1</b>  button is "ON".</p>	<div style="border: 1px solid black; padding: 5px; text-align: center;">                     Start                      End                      AM 10:00 ~      PM 8:00                 </div> <p style="text-align: center;">(Display Example)</p>	<ul style="list-style-type: none"> <li>* You can activate automatic operation regardless if the  button is "ON" or "OFF".</li> <li>*  indicator is lit when activated.</li> <li>* "Start time" and "End time" will be displayed upon activation.</li> <li>* If both the "Start time" and "End time" are set to "-:--", the alarm sounds "Pi Pi Pi" and</li> </ul> <div style="border: 1px solid black; padding: 5px; text-align: center;">Set PROG</div> <p>is displayed.</p>

### ● To Deactivate Automatic Operation

<p> button is "OFF".</p>	<ul style="list-style-type: none"> <li>* The  indicator is unlit.</li> </ul>
--------------------------	--

- \* If the button is not set to "OFF", the water heater will automatically turn "ON" or "OFF" at the set times.
- \* If there is a power failure or power is disconnected to the water heater, automatic operation will be deactivated.

# Locking the Remote Controller




Cover shown in the open position.







By locking the remote controller, the settings cannot be accidentally changed if a button is pressed by mistake.

Operation	Screen Display	Description
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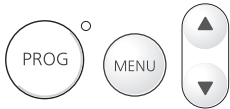
**1** Press and hold  button for approximately 2 seconds to lock the remote controller.

```

Lock complete
[ PROG ] [ MENU ]
[ Temp ]
    
```

- \* The operation can be locked regardless if the  button is "ON" or "OFF".
- \* The operations of , , and  buttons are locked.
- \* Approximately 3 seconds after locking the remote controller, the display will return to the previous screen.

If you press these buttons




while the remote controller is locked, the "Locked" screen will appear.

```

Locked
[ PROG ] [ MENU ]
[ Temp ]
    
```

- \* Approximately 3 seconds after the "locked" screen appears, the display will return to the previous screen.

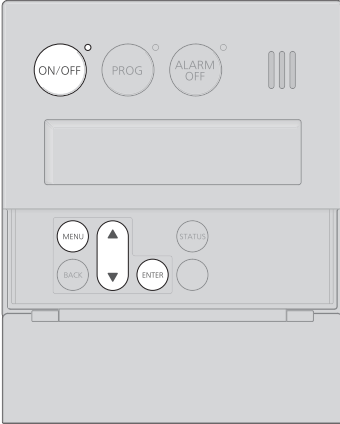
## ● To Unlock the Remote Controller

Press and hold  button for approximately 2 seconds to unlock the remote controller.

```

Unlock complete
[ PROG ] [ MENU ]
[ Temp ]
    
```

- \* Approximately 3 seconds after unlocking the remote controller, the display will return to the previous screen.



## Adjusting the Maximum Output Temperature.

The maximum output temperature can be limited to prevent discharging hot water at too high of a temperature.

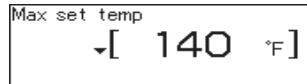
**1** Press the **ON/OFF** button is "OFF".

**2** Press the **MENU** button inside the cover, Select **Misc settings** using the **UP/DOWN** buttons.

Press the **ENTER** button.  
The "Misc settings" screen appears.

**3** Select **Max set temp** using the **UP/DOWN** buttons, and then press the **ENTER** button.

**4** Change the setting using the **UP/DOWN** buttons.



(Ex: 140°F)

The maximum temperature setting differs by product, refer to P11.

Setting completed

## Display Screen Power Saving Mode [powersave dsply]

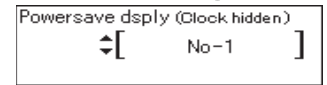
To conserve power consumption by the display, it can be turned off completely or set to only display the clock when the power ON/OFF button is turned "OFF".

**1** Press the **MENU** button inside the cover, Select **Misc settings** using the **UP/DOWN** buttons.

Press the **ENTER** button.  
The "Misc settings" screen appears.

**2** Select **Powersave dsply** using the **UP/DOWN** buttons, and then press the **ENTER** button.

**3** Change the setting using the **UP/DOWN** buttons.



(Ex: No-1)

**Yes:** the display will turn off and the clock will not be displayed when the power ON/OFF button is turned "OFF".

**No-1:** the display will not turn off and the clock will not be displayed when the power ON/OFF button is turned "OFF".

**No-2:** the display will not turn off and the clock is displayed when the power ON/OFF button is turned "OFF".

(Default setting=No-1)




Setting completed



To change other settings, select the option and press the **ENTER** button.



To return to the home screen, press the **MENU** button or let it sit for approximately 20 seconds.

## Adjusting the brightness of the display screen when the remote controller is turned on.

The display screen can be brightened or darkened or the backlight can be turned off completely.

- 1 Press the  button inside the cover, Select **Misc settings** using the  buttons.  
Press the  button.  
The "Misc settings" screen appears.

- 2 Select **Brightness** using the  buttons, and then press the  button.

- 3 Change the setting using the  buttons.  
  
(Ex: Normal)




Dark / Dim / Normal / Bright



(Default setting=Normal)


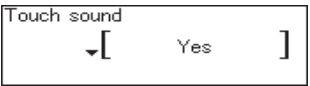
Setting completed

## Muting the remote controller.

The remote controller can be muted so that it does not emit a tone when a button is pressed.

- 1 Press the  button inside the cover, Select **Misc settings** using the  buttons.  
Press the  button.  
The "Misc settings" screen appears.

- 2 Select **Touch sound** using the  buttons, and then press the  button.

- 3 Change the setting using the  buttons.  
  
(Ex: Yes)

Yes / No




(Default setting=Yes)



Setting completed


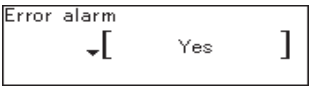
## <System dependent option>

### Error Tone Settings.

The remote controller can be muted so that it does not emit a tone when an error occurs.

- 1 Press the  button inside the cover, Select **Misc settings** using the  buttons.  
Press the  button.  
The "Misc settings" screen appears.

- 2 Select **Error alarm** using the  buttons, and then press the  button.

- 3 Change the setting using the  buttons.  
  
(Ex: Yes)

Yes / No

(Default setting=Yes)

Setting completed

To change other settings, select the option and press the  button.



To return to the home screen, press the  button or let it sit for approximately 20 seconds.



## Draining the Water Heater.



(☞ Refer to "Preventing Damage from Freezing" as shown in the Owner's Guide provided with the water heater.)


**1**  button is "OFF".

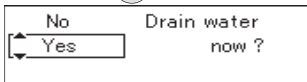
**2** Press the  button inside the cover, Select **Misc settings** using the  buttons.

Press the  button.

The "Misc settings" screen appears.

**3** Select **Drain water** using the  buttons, and then press the  button.

**4** Select "YES" using the  buttons.



Press the  button.

Follow the drain procedures in the manual

Drain the water heater following the procedures described in the Owner's Guide provided with the water heater.



### To stop draining water from the water heater

If you press the  button again when "Drain water" and "Operating" are alternately displayed following steps 2 to 3, the drain function will stop.

## Restoring Default Settings.



Select settings can be restored to the factory default conditions. See items marked with a ★ in the "Default Settings" section (☞ P27).


**1**  button is "OFF".

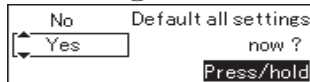
**2** Press the  button inside the cover, Select **Misc settings** using the  buttons.


Press the  button.

The "Misc settings" screen appears.

**3** Select **Default all settings** using the  buttons, and then press the  button.

**4** Select "YES" using the  buttons.



Press and hold the  button for approximately 5 seconds.

Reset complete

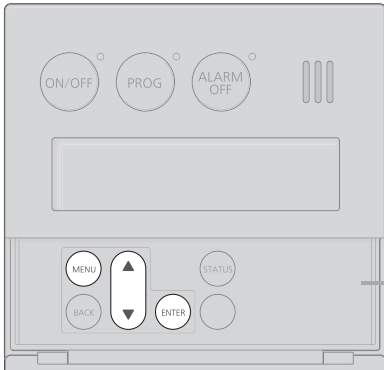
Setting completed

To change other settings, select the option and press the  button.

To return to the home screen, press the  button or let it sit for approximately 20 seconds.

For System [ Rcrc ]




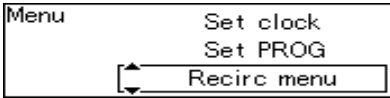
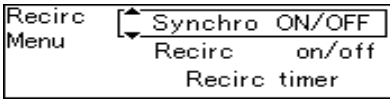


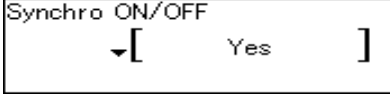



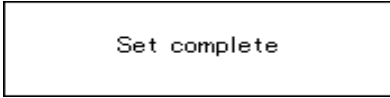


# Disabling Automatic Recirculation Operation



Cover shown in the open position.

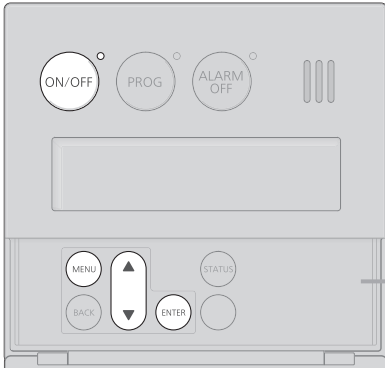


- \* To check system status. (P6)
- \* When “synchro ON/OFF” is set to “No”, recirculation can be activated manually.
- \* To change “synchro ON/OFF” from “No” to “Yes”, follow the same procedure as described below.

Operation	Screen Display	Description
<p><b>1</b> 1) Press the  button inside the cover, Select "Recirc menu" using the  buttons.</p> <p>2) Press the  button.</p>	<p>1) </p> <p>2) </p>	<p>* This adjustment can be made regardless of whether the  button is ON/OFF.</p>
<p><b>2</b> Select "Synchro ON/OFF" and press the  button.</p>		
<p><b>3</b> 1) Press .</p> <p>2) Press the  button.</p>	<p>1) </p> <p>2) </p> <p style="text-align: center;">▼</p> <p>The screen returns to the previous screen.</p>	<p>* If the display is left untouched for approximately 20 seconds without pressing the  button, the setting will be completed, and when the  button is turned ON, the home screen will be restored.</p>

For System [ Rcirc ]




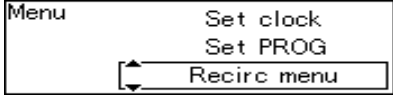





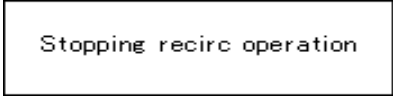

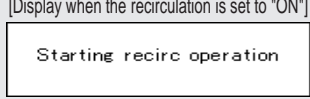
# Manually Stopping Recirculation Operation




Cover shown in the open position.

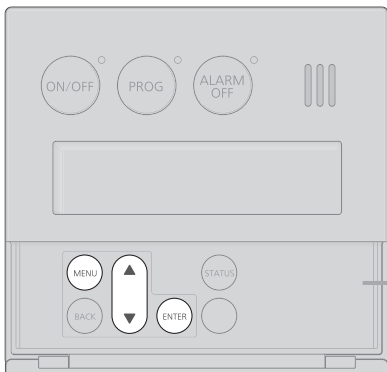


Recirculation operation can be manually stopped or started using this procedure.

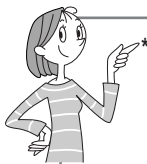
Operation	Screen Display	Description
<p><b>1</b></p> <p>1) Press the  button inside the cover, Select "Recirc menu" using the  buttons.</p> <p>2) Press the  button.</p>	<p>1) </p> <p>2) </p>	<p>* You can set this function if the  button is "ON".</p>
<p><b>2</b></p> <p>1) Select "Recirc on/off" using the  buttons.</p> <p>2) Press the  button.</p>	<p>1) </p> <p>2) </p> <p>[Display when recirculation is set to "OFF"]</p> <p>▼</p> <p>The screen returns to the previous screen.</p>	<p>* If the display is left untouched for approximately 20 seconds without pressing the  button, the setting will be completed.</p> <p>[Display when the recirculation is set to "ON"]</p> <p></p>

\* Even if recirculation is set to "OFF", recirculation operation is restarted by either turning the  button "ON", when the water heater is turned ON automatically (P12) or when the recirculation timer (P20) is active.

# Setting the Recirculation System



Cover shown in the open position.



\* With the recirculation operation timer set, hot water will be automatically circulated in the hot water pipes. Even with this function activated, it may take several minutes for hot water to be completely circulated through the plumbing system. Set the timer to activate the recirculation system prior to the first use of hot water to ensure hot water is instantly available.

\* Multiple recirculation time periods can be set.

\* Until the timer is deactivated (P21), the recirculation system will operate daily at the set times.

\* When the recirculation system is turned "OFF" by the timer, the water heater will still remain "ON" and can be used normally.

Operation	Screen Display	Description
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This example describes setting the recirculation system to operate between 5:00 am - 8:00 am.







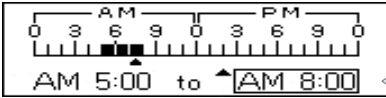
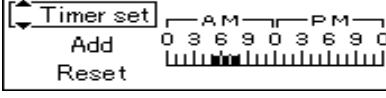

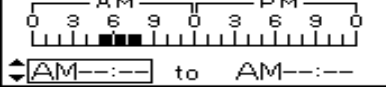
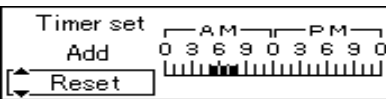
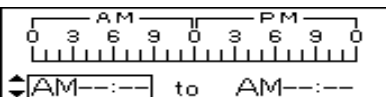


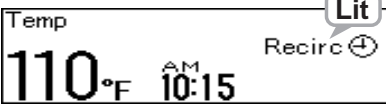

**Preparation** Check that the current time is properly set.  
(Setting the time P.8)

<p><b>1</b></p> <p>1) Press the <b>MENU</b> button inside the cover, Select "Recirc menu" using the <b>▲</b> buttons.</p> <p>2) Press the <b>ENTER</b> button.</p>	<p>1) Menu Set clock Set PROG Recirc menu</p> <p>2) Recirc Menu Synchro ON/OFF Recirc on/off Recirc timer</p>	<p>* You can set the timer regardless if the <b>ON/OFF</b> button is "ON" or "OFF".</p>
--	---	---




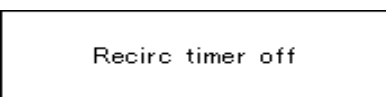

<p><b>2</b></p> <p>1) Select "Recirc timer" using the <b>▲</b> buttons.</p> <p>2) Press the <b>ENTER</b> button.</p>	<p>1) Recirc Menu Synchro ON/OFF Recirc on/off Recirc timer</p> <p>(Example of a display)</p> <p>2) 0 3 6 9 0 3 6 9 0 AM--:-- to AM--:--</p>	<p>* The previous setting is displayed.</p>
--	--	---

<p><b>3</b></p> <p>1) Select "AM5:00" using the <b>▲</b> buttons.</p> <p>2) Press the <b>ENTER</b> button to complete the "Start" time setting.</p>	<p>1) 0 3 6 9 0 3 6 9 0 AM 5:00 to AM 6:00</p> <p>2) 0 3 6 9 0 3 6 9 0 AM 5:00 to AM 6:00</p>	<p>* Every time when you press the button, the time changes by one hour. [To keep the current "Start" time] Press the <b>ENTER</b> button without changing the "Start" time, and proceed to step 4.</p> <p>[To add additional time periods to the current setting, or to cancel the previous setting]</p> <p>1) Press the <b>ENTER</b> button without setting "Start" time.</p> <p>2) Press the <b>ENTER</b> button without setting "End" time.</p> <p>3) Follow the procedures "Adding Additional Time Periods" or "Resetting All Time Periods" (P21).</p>
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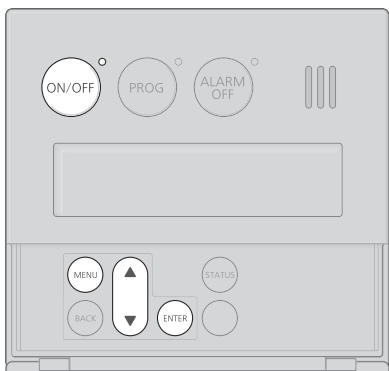
# Operation Timer

Operation	Screen Display	Description
<p><b>4</b></p> <p>1) Select "AM8:00" using the  buttons.</p> <p>2) Press the  button to complete the "End" time setting.</p> <p>&lt;Adding Additional Time Periods&gt;</p> <p>1) Select "Add" using the  buttons.</p> <p>2) Press the  button.</p> <p>3) Select the time period following the procedures in Steps 3 to 4.</p> <p>&lt;Resetting All Time Periods&gt;</p> <p>1) Select "Reset" using the  buttons.</p> <p>2) Press the  button. (All settings are cleared.)</p> <p>3) Adjust the time period following the procedures in Steps 3 to 4.</p>	<p>1)  Here</p> <p>2) </p> <p>1) </p> <p>2) </p> <p>1) </p> <p>2) </p>	<p>* Every time when you press the button, the time changes by one hour. [To keep the current "End" time]</p> <p>Press the  button without changing the "End" time, and proceed to step 5.</p> <p>* You can set multiple operation time periods.</p>
<p><b>5</b></p> <p>Press the  button to complete the time settings.</p>	<p>Set complete</p> <p>▼</p> <p>"Recirc timer" and "Recirc timer on" are alternately displayed on the menu (approximately 10 seconds)</p> <p>▼</p>  <p>(Example of home screen when the power ON/OFF button is turned "ON")</p>	<p>* The timer will not activate without pressing the  button.</p> <p>* If the time is not set, the time setting screen is displayed (P8).</p> <p>* Until the timer is deactivated, the recirculation system will operate daily at the set "Start" and "End" times.</p>

## ● To Cancel the Recirculation System Operation Timer

<p>1) Carry out steps 1 to 2.</p> <p>2) Select "Cancelled" using the  buttons.</p> <p>3) Press the  button.</p>	<p>1) </p> <p>2) </p> <p>▼</p> <p>The screen returns to the Recirc Menu.</p>	<p>* If the  button is "ON", the screen returns to the home screen in approximately 10 seconds.</p> <p>* If the timer is deactivated during a recirculation time period, recirculation will continue until it is stopped using the procedure shown on P19.</p>
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# Flow Meter Alarm

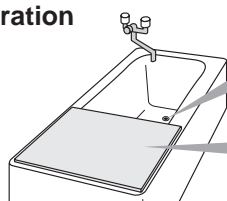


If the flow meter alarm is being used to indicate when a tub is full:

- If any hot water is being used besides what is going into the tub, the alarm will sound before the tub is full.
- If there was water in the tub before the fill began, or if the water is not shut off manually when the alarm sounds, the tub may overflow.
- If there was water in the tub before the fill began, the temperature in the tub after it is full may be different from the temperature setting.

Operation	Screen Display	Description
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## Preparation



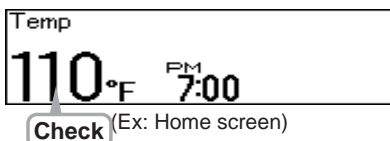
① Confirm that the stopper is closed.

② Close the lid.

\* Open the lid closest to the spout to allow for filling.

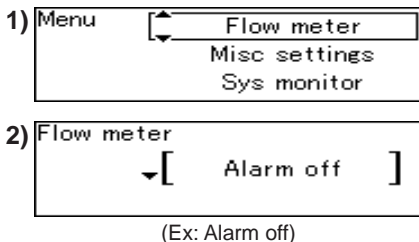
(Example of bathtub filled with hot water.)

**1** button is "ON".



- \* The indicator is lit.
- \* The current setting temperature is displayed.

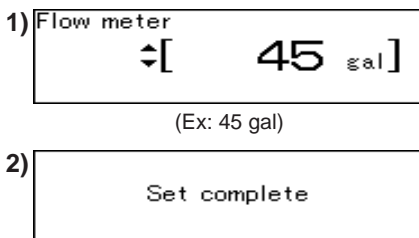
**2** 1) Press the button inside the cover, Select "Flow meter" using the buttons.  
2) Press the button.



- \* The current hot water filling volume is displayed.

**3** Adjust the Flow Meter Alarm volume setting

1) Change the volume with your desired hot water volume. to  
2) Press the button.



- \* The set hot water volume will be stored in memory.
- \* The screen returns to the home screen.
- \* If the display is left untouched for approximately 20 seconds without pressing the button, the setting will be completed and the home screen will be restored.

## ● Fill Volume Options ●


10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	Alarm off
----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----------

40	60	80	100	120	140	160	180	200	220	240	260	300	340	380	Alarm off
----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----------

(Default setting = Alarm off)

Operation	Screen Display	Description
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**4** Turn on hot water.



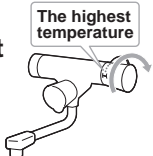
Lit during combustion

Temp


**110°F** PM 7:00

**If the hot water temperature has been set so that it does not require mixing, set the mixing valve to its highest setting.**


The hot water in the bathtub may become lukewarm if it is mixed with cold water at the fixture.




**5** When the bathtub fills with the preset volume of water, an alarm will sound alerting you to shut off the water.



Please turn off hot water faucet

- \* Why doesn't the flow meter alarm sound even if the bathtub is filled with water? (→P24)
- \* The alarm will continue to sound even if the  button is pressed.

Turn off the hot water when the alarm sounds to prevent overflowing.



### ● Hot Water Filling Temperature Options ●

(°F : The temperatures settings below are only examples. The temperature setting necessary will depend on the usage, the length of piping and the time of year.)

100	105	110	115	120
Warm	Warmer		Hot	

(°C (°F) : The temperatures settings below are only examples. The temperature setting necessary will depend on the usage, the length of piping and the time of year.)

37	38	39	40	41	42	43	44	45	46	47	48
(99)	(100)	(102)	(104)	(106)	(108)	(109)	(111)	(113)	(115)	(117)	(118)
Warm			Warmer				Hot				


\* Initial factory setting: 110°F or 40°C (104°F)

- \* Although the temperature can be set to 125°F / 50°C or higher, do not set the temperature to 125°F / 50°C or higher as it can cause severe burns instantly or death from scalding.
- \* The hot water filling temperature is same as the setting temperature.
- \* The setting temperature displayed may vary from the actual temperature at the fixture depending on conditions such as season or length of piping.

# Troubleshooting

★ This section only covers issues with the remote controller.

To diagnose issues with the water heater, consult the Owner's Guide supplied with the water heater.

	Problem	Possible Cause	Action
Remote Controller	The power ON/OFF indicator does not light up	There has been a power failure. The power plug is disconnected.	Wait for power to be restored. <b>Check the power plug.</b>
	The clock display shows "- : -"	If the time is not displayed on the clock, either a power failure has occurred or power was disconnected resulting in the display showing "- : -".	<b>Set the clock again.</b> P8
	The flow meter alarm does not sound or it sounds before the bathtub has been filled to the set amount.	The flow meter alarm is set to sound when hot water is continuously discharged for the set volume of water. If hot water is used for other fixtures while filling the bath tub, the alarm will sound before the tub is full. If mixing valves are used, or if cold water is mixed with hot water at the fixture, the tub will fill more than the setting of the flow meter alarm.	<b>An error has not occurred.</b> <b>An error has not occurred.</b>
	The setting cannot be changed when a button is pressed.	The remote controller is locked. While the remote controller is locked these buttons  cannot be used.	<b>Unlock the remote controller.</b> P14
	[For recirculation systems] Flame symbol <img alt="flame symbol" data-bbox="225 475 245 490"/> lights up or goes out	During recirculation operation, the water heater will turn on and off to keep the hot water pipes up to temperature.	<b>An error has not occurred.</b>





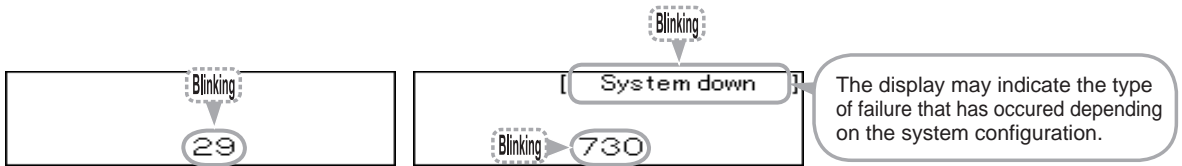
## Checking for Error Conditions

When a failure occurs, information relating to the error blinks on the display.

The error alarm may also continuously sound.

For additional details on the cause of the error displayed, refer to the “Troubleshooting” section in the Owner’s Guide provided with the water heater.

### ● Error Code Display Screen ●



### ● To Stop the Error Alarm ●

Press the  button (the indicator will turn off).

# Follow-up Service

## Requesting Service





- \* Service and warranty periods are based on the type of product and the application type. Refer to the Limited Warranty provided with the water heater for complete details.
- \* Refer to the "Troubleshooting" section in this manual as well as the Owner's Guide supplied with the water heater. If the problem is not corrected, contact Noritz America Technical Support at 866-766-7489.

### ● If an error code is displayed, the model name and code can be checked ●


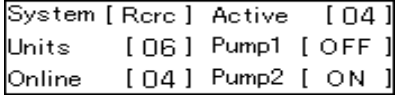




< Ex:Error code >

\* If more than one water heater is installed, this procedure cannot be used.

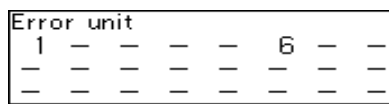
Operation	Screen Display	Description
<b>1</b> Press the  button.	 <p>Model            Model code [            ]</p> <p>Model code            Product name of water heater is displayed</p>	
<b>2</b>  button is pushed again. (Return to previous screen. )	 <p>&lt;Screen display (Example)&gt;</p>	* If the display is left untouched for approximately 60 seconds, it will return to the previous screen.

### ● Press the button to check the status of the system ●



Operation	Screen Display	Description
<b>1</b> Press the  button inside the cover.	 <p>System [ Rorc ] Active [ 04 ]            Units [ 06 ] Pump1 [ OFF ]            Online [ 04 ] Pump2 [ ON ]</p> <p>&lt;Screen display (Example)&gt;</p>	* Status can be checked regardless of whether the  button is ON/OFF. * If the  button is pushed or it is left untouched for approximately 10 minutes, it will return to the previous screen.

### ● Identifying units that require service (system dependent).

Press the  button twice inside the cover.



<Screen display (Example)>

\* If you press the  button, the screen of step 1 is displayed.  
 If you press the  button, the screen returns to the previous screen.

# Default Settings

Items	Default setting
Clock display (unset)	--:--
Hot water temperature	110°F / 40°C
Hot water volume	alarm off

Customizable Settings (↩ P15 - 17)	Default setting	
Maximum Output Temperature	120°F / 50°C (Residential products begin with the prefix "NR")	★
	185°F / 85°C (Commercial products begin with the prefix "NC")	
"Powersave dsply" and clock display	No-1	★
Brightness of the display screen when the remote controller is turned on.	Normal	★
Operation sound of remote controller	Yes	★
Notification when a failure is generated	Yes	★

★ Indicates an item that can be restored to default.  
See P17 "Restoring Default Settings".

