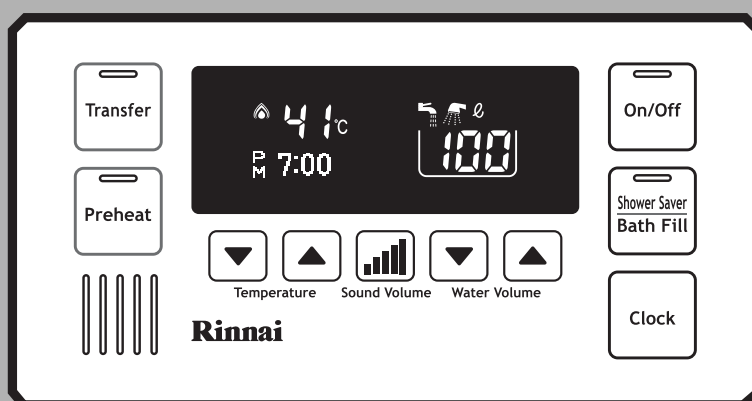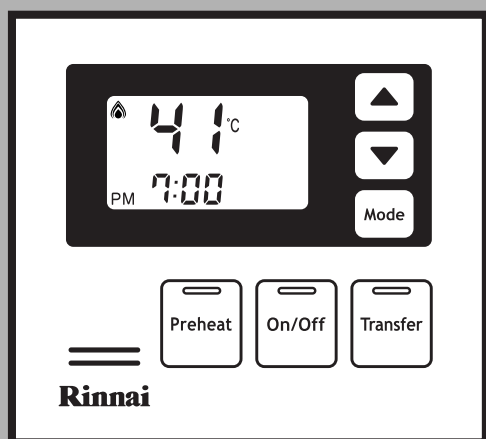# Rinnai

MC-100V & BC-100V
Operation / Installation Manual

A guide on how to use and install Rinnai deluxe remote controllers

This guide is for the use and installation of Rinnai Deluxe remote controller models MC-100V and BC-100V.

These instructions must be used in conjunction with the Rinnai Water Heater Operation / Installation Manual supplied with Rinnai water heaters.

These remote controllers are compatible only with the Rinnai water heater and other remote controller models shown.

Refer to the table located on page 1 of this manual to confirm the maximum number and combination of controllers that can be fitted to your Rinnai water heater model.

Compatible Rinnai water heater models:

Infinity 32	REU-V3232W
Infinity 26	REU-V2626W
Infinity 26i	REU-V2632FFU
Infinity 25	REU-2425W
Infinity 20	REU-V2020W
Infinity 18	REU-V2018W
Infinity 16	REU-V1616W
V1200	REU-V1620W
HD 250e	REU-V3232WC
HD 200e	REU-V2632WC
HD 200i	REU-V2632FFUC

Compatible Rinnai remote controller
Universal   MC-91Q

This appliance shall be installed in accordance with:

• Manufacturer's Installation Instructions
• Current AS/NZS 3000, AS/NZS 3500 & AS 5601
• Local Regulations and Municipal Building Codes

This appliance must be installed, serviced and removed by an Authorised Person.

The Australian Gas Association
All Rinnai gas products are A.G.A. certified.

N10378

Quality System
Quality Endorsed Company
ISO 9001 Lic 4983
SAI Global
Head Office Certified
Distributed and serviced in Australia under a Quality System certified as complying with ISO 9001 by SAI Global

Certified Product
W™
WaterMark
AS3498 Lic W200
SAI Global

REGULATORY INFORMATION

Controllers and water heaters must be installed correctly by an authorised person. The installation of gas, water, and electricity must conform to local regulations.

The installation must also comply with the instructions supplied by Rinnai.

Please keep this instruction booklet in a safe place for future reference.

All dimensions referred to in these instructions are in millimetres, unless otherwise specified.

WARNING ABOUT HOT WATER

DANGER BEWARE OF SCALDING HAZARDS

Excessively hot water is dangerous, especially for young children and the infirm. Rinnai water heaters allow you to control the temperature of hot water to safe levels.

Water temperatures above 50°C can cause severe burns instantly and may even result in death. Those most at risk are children, disabled, elderly and the infirm. Hot water at 65°C (the average hot water temperature in Australia) can severely burn a child in less than half a second. At 50°C it takes five minutes.

ALWAYS......

Test the temperature of the water with your elbow before placing your child in the bath, also carefully feel water before bathing or showering yourself.

Supervise children whenever they are in the bathroom.

Make sure that the hot water tap is turned off tightly.

CONSIDER.....

Installing child proof tap covers or child resistant taps (both approaches will prevent a small hand being able to turn on the tap).

Setting your appliance at a maximum temperature of 50°C (Contact Rinnai Australia).

NEVER…..

Leave a toddler in the care of another child. They may not understand the need to have the water temperature set at a safe level.

OPERATION MANUAL

GENERAL REMOTE CONTROLLER INFORMATION

Temperature remote controllers allow precise temperature control by the user. When used correctly, the hot water unit will deliver the selected temperature, even when the water flow is varied, or more than one tap is in use. Each remote controller can be individually programmed, however the water heater can only deliver one set temperature at any time. The available temperatures (°C) are as follows:

Kitchen Controller:

37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50, 55°C* (60, 65°C HD models only)

Bathroom Controller:

Hot Water Delivery: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 50°C
Bath fill Delivery: 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48°C

Whilst hot water outlets are open the set temperature may be lowered. However the set temperature cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.

Suggested temperatures are:

Kitchen 50°C ~ 55°C* Shower 37°C ~ 43°C, Bath fill 39°C ~ 45°C

* Temperature may not be available on all installations. Rinnai water heaters can be programmed to deliver higher temperatures via the kitchen controller. Contact Rinnai for more details.

These temperatures are suggestions only. You may find higher or lower temperatures more comfortable. Maintaining lower temperatures helps save energy. To obtain water temperatures lower than 37°C simply add cold water.

Remote controllers are an optional extra. 'Universal' and 'Deluxe' remote controllers can be fitted. Universal Controllers allow temperature selection only. Deluxe controllers allow temperature selection, bath fill and have a clock function.
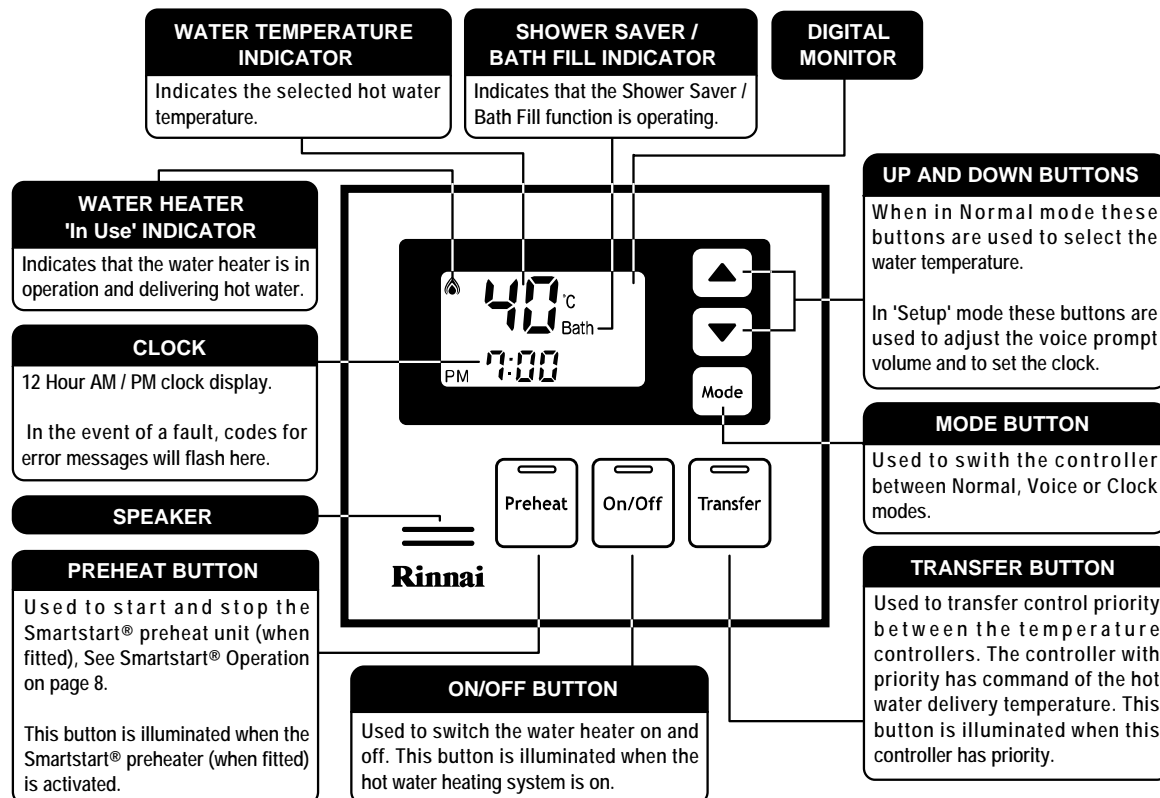
Remote controllers allow the water temperature to be set from the various locations where they are installed. The temperature selected will be available to all outlets.

Universal (MC-91Q) and Deluxe (MC-100V & BC-100V) Controllers - available configurations:

Infinity V1200 16 18 20 25	A maximum of 3 controllers can be fitted. Any combination of both deluxe and universal controllers can be used except: **Only ONE MC-100V controller can be installed.** **Only ONE BC-100V controller can be installed.**
Infinity 26 26i HD 200e 200i	A maximum of 4 controllers can be fitted. Any combination of both deluxe and universal controllers can be used except: **Only ONE MC-100V controller can be installed.** **Only TWO BC-100V controllers can be installed.**
Infinity 32 HD 250e	A maximum of 4 controllers can be fitted. Any combination of both deluxe and universal controllers can be used except: **Only ONE MC-100V controller can be installed.** **Only TWO BC-100V controllers can be installed, if FOUR controllers are to be installed only ONE BC-100V controller can then be installed.**

DELUXE REMOTE CONTROLLERS

ABOUT THE DELUXE KITCHEN REMOTE CONTROLLER (MC-100V)

WATER TEMPERATURE INDICATOR
Indicates the selected hot water temperature.

SHOWER SAVER / BATH FILL INDICATOR
Indicates that the Shower Saver / Bath Fill function is operating.

DIGITAL MONITOR

WATER HEATER 'In Use' INDICATOR
Indicates that the water heater is in operation and delivering hot water.

UP AND DOWN BUTTONS
When in Normal mode these buttons are used to select the water temperature.

In 'Setup' mode these buttons are used to adjust the voice prompt volume and to set the clock.

CLOCK
12 Hour AM / PM clock display.

In the event of a fault, codes for error messages will flash here.

MODE BUTTON
Used to swith the controller between Normal, Voice or Clock modes.

SPEAKER

PREHEAT BUTTON
Used to start and stop the Smartstart® preheat unit (when fitted), See Smartstart® Operation on page 8.

This button is illuminated when the Smartstart® preheater (when fitted) is activated.

TRANSFER BUTTON
Used to transfer control priority between the temperature controllers. The controller with priority has command of the hot water delivery temperature. This button is illuminated when this controller has priority.

ON/OFF BUTTON
Used to switch the water heater on and off. This button is illuminated when the hot water heating system is on.

HOW TO USE THE DELUXE KITCHEN REMOTE CONTROLLER (MC-100V)

Turning on the Controller

If the controller is switched off (No digits other than the clock digits displayed in the digital monitor) press the On/Off button once.

The On/Off and Transfer buttons illuminate to indicate that the hot water unit will be ready to supply hot water once a hot water tap is opened.

If more than one controller is fitted press the 'Transfer' button to transfer priority to the desired controller.
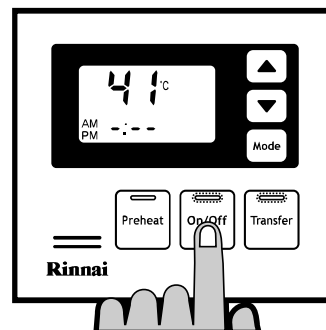
⚠ **NOTE**

Only one MC-100V may be fitted to the water heater. Refer to page 1 to confirm the maximum number and combination of controllers that can be fitted to your Water Heater model.

The MC-100V controller is not water resistant, avoid direct exposure to water or steam as these conditions may cause damage.
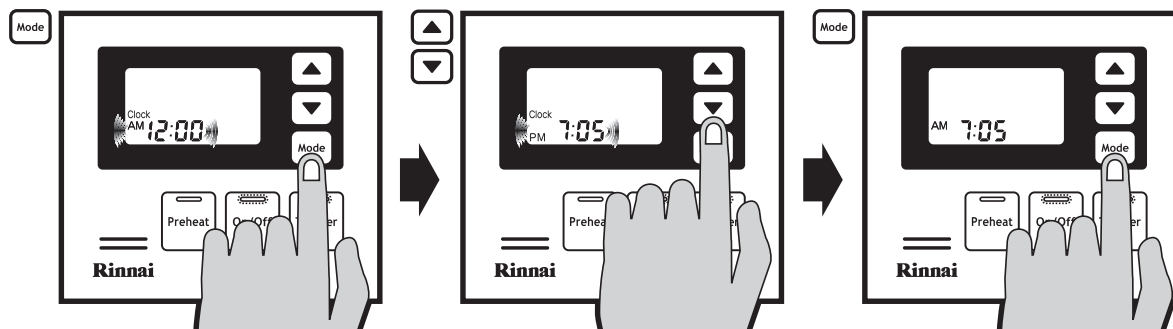

Setting The Clock

The clock is a 12 hour AM/PM style display. To set the time press the 'Mode' button twice, this places the controller into clock setting mode, in the digital monitor the word 'Clock' will be displayed and the clock digits will flash, if this is the first time the clock has been set the starting time will be AM 12:00.

Use the ▲ or ▼ buttons to select the desired time, holding these buttons down continuously cycles the digits. When you get close to the time you wish to set, press the button intermittently to avoid going further than the desired time.

DELUXE REMOTE CONTROLLERS

To return to normal mode press the 'Mode' [Mode] button once,if no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.

> **NOTE**
> **The time is always displayed regardless of whether the Remote Controller is turned ON or OFF.**
>
> **The clock may need reseting if power to the water heater unit is disrupted due to a power failure or if the power is switched off over a prolonged period.**

Setting The Sound Options

To set the sound options press the 'Mode' [Mode] button once to place the controller into 'Voice' mode.

Use the [▲] or [▼] buttons to select the desired audible setting as follows:

Voice High, Med, Low or Off, sets the voice prompt volume but does not affect the audible tones.
Sound Off, mutes all voice prompts and audible tones.

To return to normal mode press the 'Mode' [Mode] button once, if no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.

> **NOTE**
> **Voice prompts only available when Deluxe Bathroom remote controller(s) are installed.**

Adjusting Temperature

Simply press the 'hot water temp' [▲] or [▼] buttons until the required temperature is displayed on the Digital Monitor.

To operate the water heater, open any hot water tap. This will automatically light the burner, providing hot water. The 'In Use' indicator ◈ will illuminate on the Remote Controller.
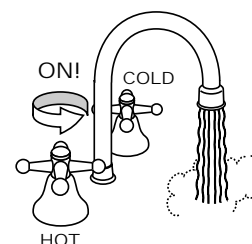
Once the hot water is running, if the set temperature is either too hot or cold press the [▲] or [▼] buttons until the desired temperature is reached.

> **NOTE**
> **Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.**
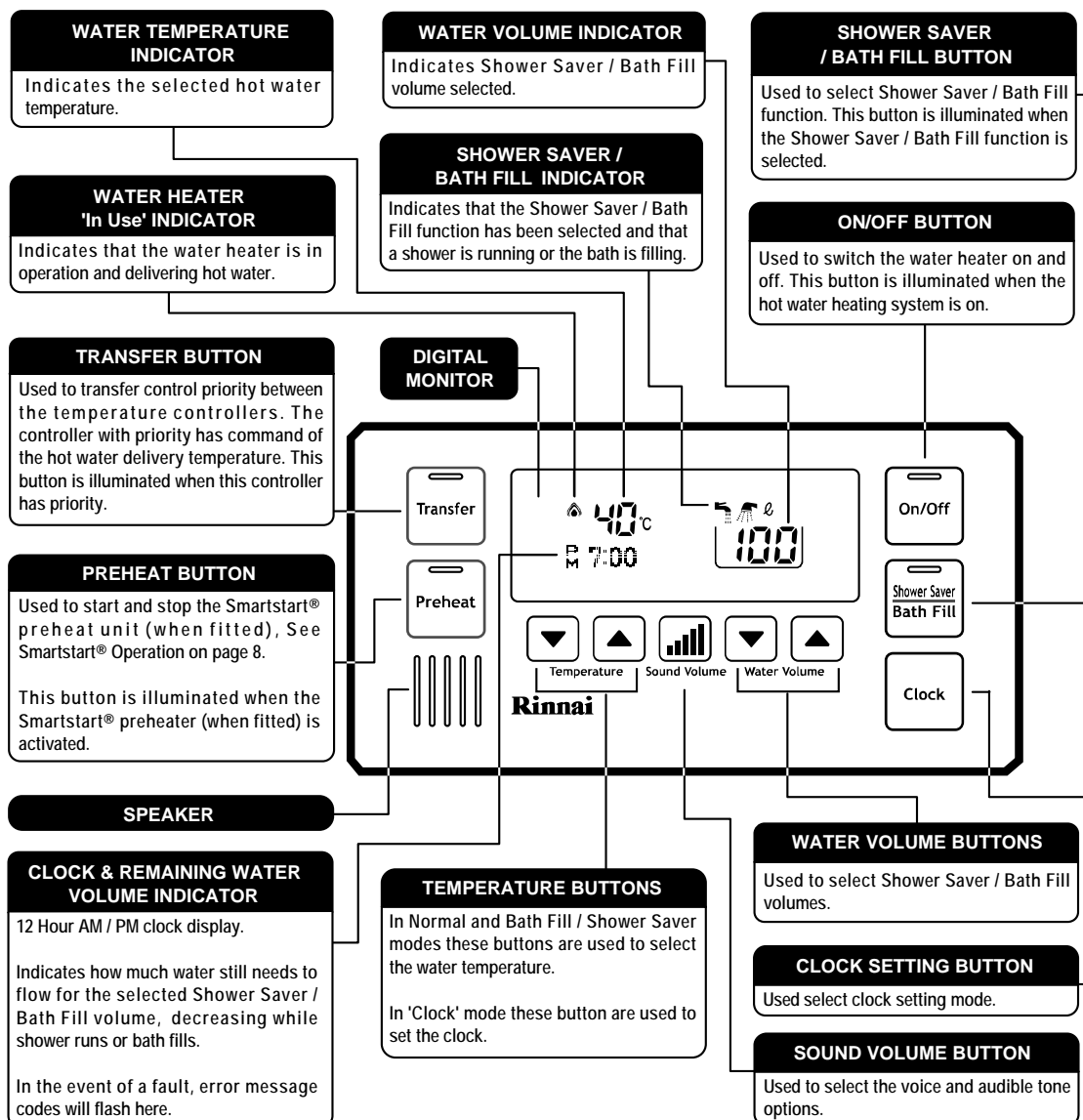
> **CAUTION**
> **CHECK WATER TEMPERATURE BEFORE USE.**
> **A parent or carer should always check the temperature before a child is placed in contact with hot water.**

DELUXE REMOTE CONTROLLERS

ABOUT THE DELUXE BATHROOM REMOTE CONTROLLER (BC-100V)

WATER TEMPERATURE INDICATOR
Indicates the selected hot water temperature.

WATER VOLUME INDICATOR
Indicates Shower Saver / Bath Fill volume selected.

SHOWER SAVER / BATH FILL BUTTON
Used to select Shower Saver / Bath Fill function. This button is illuminated when the Shower Saver / Bath Fill function is selected.

WATER HEATER 'In Use' INDICATOR
Indicates that the water heater is in operation and delivering hot water.

SHOWER SAVER / BATH FILL INDICATOR
Indicates that the Shower Saver / Bath Fill function has been selected and that a shower is running or the bath is filling.

ON/OFF BUTTON
Used to switch the water heater on and off. This button is illuminated when the hot water heating system is on.

TRANSFER BUTTON
Used to transfer control priority between the temperature controllers. The controller with priority has command of the hot water delivery temperature. This button is illuminated when this controller has priority.

DIGITAL MONITOR

PREHEAT BUTTON
Used to start and stop the Smartstart® preheat unit (when fitted), See Smartstart® Operation on page 8.

This button is illuminated when the Smartstart® preheater (when fitted) is activated.

SPEAKER

CLOCK & REMAINING WATER VOLUME INDICATOR
12 Hour AM / PM clock display.

Indicates how much water still needs to flow for the selected Shower Saver / Bath Fill volume, decreasing while shower runs or bath fills.

In the event of a fault, error message codes will flash here.

TEMPERATURE BUTTONS
In Normal and Bath Fill / Shower Saver modes these buttons are used to select the water temperature.

In 'Clock' mode these button are used to set the clock.

WATER VOLUME BUTTONS
Used to select Shower Saver / Bath Fill volumes.

CLOCK SETTING BUTTON
Used select clock setting mode.

SOUND VOLUME BUTTON
Used to select the voice and audible tone options.

HOW TO USE THE DELUXE BATHROOM REMOTE CONTROLLER (BC-100V)

Turning on the Controller

If the controller is switched off (No digits other than the clock digits displayed in the digital monitor) press the On/Off button once.

The On/Off and Transfer buttons illuminate to indicate that the hot water unit will be ready to supply hot water once a hot water tap is opened.

If more than one controller is fitted press the 'Transfer' button to transfer priority to the desired controller.
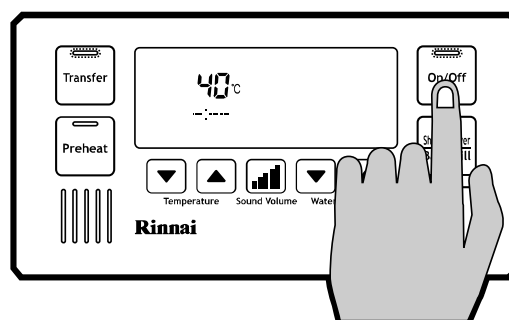
⚠️ **NOTE**
Refer to page 1 to confirm the maximum number and combination of remote controllers that can be fitted to your Water Heater model.

Avoid getting water directly in the speaker as this may cause damage.

DELUXE REMOTE CONTROLLERS

Setting The Clock

The clock is a 12 hour AM/PM style display.

To set the time press the 'Clock' [Clock] button once, this places the controller into clock setting mode, in the digital monitor the clock digits will flash, if this is the first time the clock has been set the starting time will be AM 12:00.

Use the 'Temperature' [▲] or [▼] buttons to select the desired time, holding these buttons down continuously cycles the digits. When you get close to the time you wish to set, press the button intermittently to avoid going further than the desired time.

To return to normal mode press the 'Clock' [Clock] button once, if no buttons are pressed for a period of approximately 60 seconds the controller will return to normal mode.

⚠ **NOTE** | **The time is always displayed regardless of whether the Remote Controller is turned ON or OFF.**

The clock may need reseting if power to the water heater unit is disrupted due to a power failure or if the power is switched off over a prolonged period.
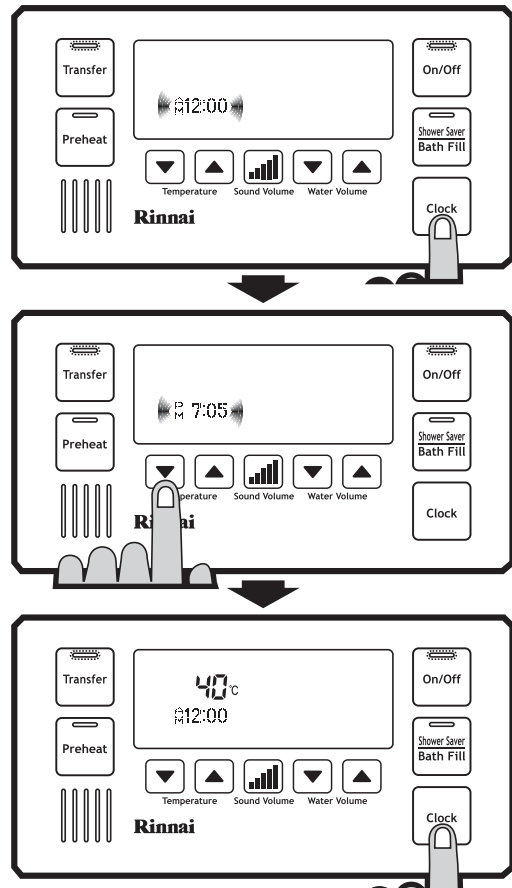
Setting The Sound Options

To set the sound options press the 'Sound Volume' [▄▄] button and select the desired audible setting as follows:
Voice High, Med, Low or Off, sets the voice prompt volume but does not affect the audible tones.
**Sound OFF**, mutes all voice prompts and audible tones.

Press any of the [▲] or [▼] buttons to return to normal mode, if no buttons are pressed for a period of approximately 10 seconds the controller will return to normal mode.

Adjusting Temperature

Simply press the 'Temperature' [▲] or [▼] buttons until the required temperature is displayed on the digital monitor.

To operate the water heater, open any hot water tap. This will automatically light the burner, providing hot water. The 'In Use' indicator 🔥 will illuminate on all Remote Controllers.

Once the hot water is running, if the set temperature is either too hot or cold press the 'Temperature' [▲] or [▼] buttons until the desired temperature is reached.
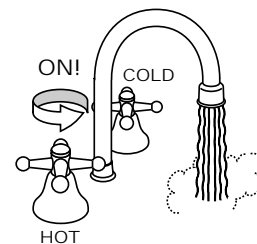
⚠ **NOTE** | **Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.**

⚠ **CAUTION** | **CHECK WATER TEMPERATURE BEFORE USE.**
A parent or carer should always check the temperature before a child is placed in contact with hot water.

DELUXE REMOTE CONTROLLERS

OPERATING THE SHOWER SAVER / BATH FILL FUNCTION

The 'Shower Saver / Bath Fill' function allows a preset water volume and temperature to be selected and run automatically.

> **NOTE**
> **No voice prompts will be available if the 'Voice OFF' or 'Sound OFF' options are selected. With 'Sound OFF' there will also be no audible tones.**

Initial Settings

When a deluxe bathroom controller is first turned on, the default shower / bath fill temperature is set to 40°C and the shower / bath volume is set to 100 litres. The shower / bath volume can be lowered to a minimum of 30 litres or raised to a maximum of 400 litres and the temperature adjusted as desired.

Setting Shower / Bath Temperature and Volume

With the system on, select a Deluxe Bathroom controller and ensure that it currently has priority. If it does not have priority press the 'Transfer' [Transfer] button once and the 'Transfer' button will illuminate.

Press 'Shower Saver / Bath Fill' [Shower Saver Bath Fill] button once. The 'Shower Saver / Bath fill' button will illuminate and a voice prompt and tone will sound.

To select the desired delivery temperature use the 'Temperature' [▲] or [▼] buttons.
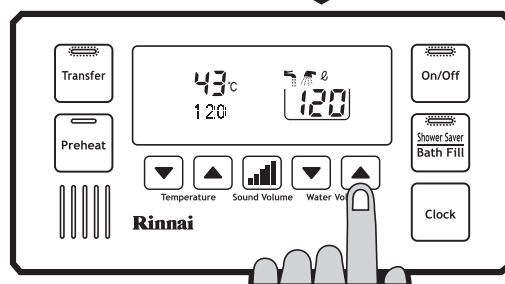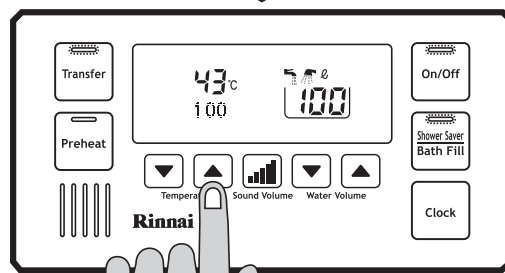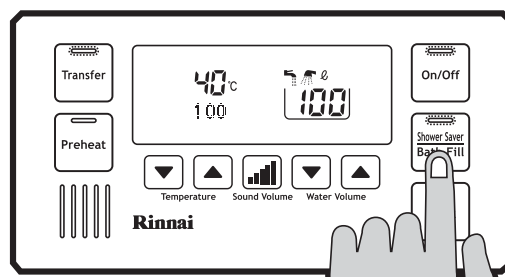
The selected temperature will be displayed on the digital monitor and will remain as the default 'Shower Saver / Bath Fill' temperature until it is changed or if the mains power is turned off for an extended period.

To select the volume of water to be used in the shower / bath use the 'Water Volume' [▲] or [▼] buttons. The selected volume is displayed in large digits to the right and will remain as the default 'Water Volume' until it is changed or if the mains power is turned off for an extended period.

The selected volume is also repeated in the form of a remaining volume counter below the temperature and replaces the clock during 'Shower Saver / Bath Fill' operations.

When filling a bath for the first time, it is recommended that a low bath fill volume such as 60 litres or lower be used. During any subsequent bath fills the volume can then be adjusted to suit your known bath volume and or desired fill level.

> **NOTE**
> **Be careful not to overfill the bath, an average bath volume is 160 litres. It is recommended that when filling a bath for the first time you should:**
> • **Remain by the bath during the filling process.**
> • **Use a low bath fill volume such as 60 litres or less.**
> **When Smartstart® (page 8) is in operation, the Shower Saver / Bath Fill function is unavailable while the water heater 'In Use' indicator 🔥 is illuminated. Do not press the Preheat button whilst Shower Saver / Bath Fill is in operation as the programmed bath fill volume will not be met.**
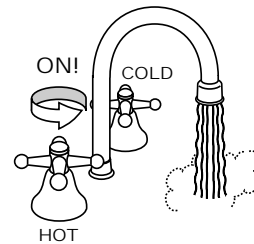
Using Shower Saver / Bath Fill

Press 'Shower Saver / Bath Fill' [Shower Saver Bath Fill] button once. The 'Shower Saver / Bath fill' button will illuminate and a voice prompt and tone will sound. During 'Shower Saver / Bath Fill' operations the 'Bath' indicator will also be displayed in the deluxe kitchen remote controller digital monitor (when fitted).

DELUXE REMOTE CONTROLLERS

The voice prompt will say "The hot water system is ready. Open the hot water tap". Open the hot water tap for the relevant shower or bath.

The 'In Use' indicator 🔥 will illuminate on all deluxe remote controllers and the shower will run or the bath will start to fill.

To Stop Shower Saver / Bath Fill Operation

If you wish to stop the water flow whilst the shower saver / bath fill function is in operation, simply press the 'Shower Saver / Bath fill' button.
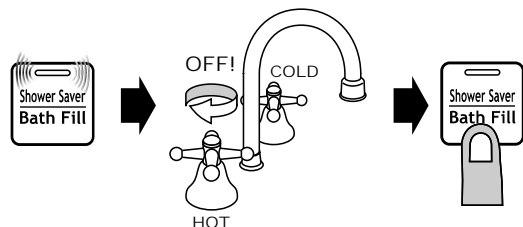
The 'Shower Saver / Bath fill' button will flash and the voice prompt will say "Hot water is not available, Turn off all hot water taps and push the 'Bath fill' button". Follow the voice prompt instructions.
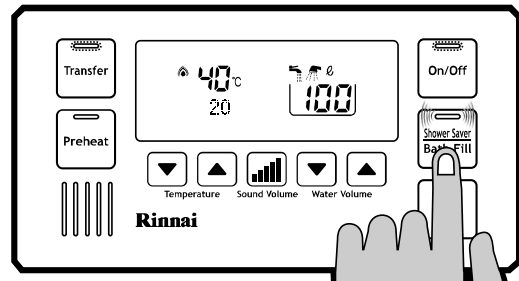
When Shower Saver / Bath Fill Operations Finishes

Once the shower saver / bath fill operation finishes the following events will occur:

1. The flow from the shower / bath hot water tap ceases.
2. The 'Shower Saver / Bath fill' button will flash.
3. The deluxe kitchen remote controller 'Bath' indicator will flash.
4. A tone will sound.
5. The voice prompt will say "Bath fill is complete. Turn off the bath hot water tap and push the bath fill button."

Follow the voice prompts instructions. Note that the water heater will not allow hot water to flow from any fixture until the 'Shower Saver/ Bath fill' button has been pressed.

6. The 'Shower Saver / Bath fill' button light on the Bathroom Controller and the 'Bath' indicator on the deluxe kitchen remote controller monitor (when fitted) will go out.

> ⚠️ **CAUTION**
>
> **CHECK WATER TEMPERATURE BEFORE USE.**
> **A parent or carer should always check the temperature before a child is placed in contact with hot water.**
>
> **NEVER LEAVE YOUNG CHILDREN UNATTENDED IN THE BATH.**
> **When using the 'Shower saver / Bath fill' function, ALWAYS close the hot water tap for the bath or shower after the flow has stopped.**

> ⚠️ **NOTE**
>
> **Whilst hot water outlets are open the set temperature may be lowered. However they cannot then be raised above 43°C. In addition transfer of 'priority' between controllers is not possible. These are safety features.**
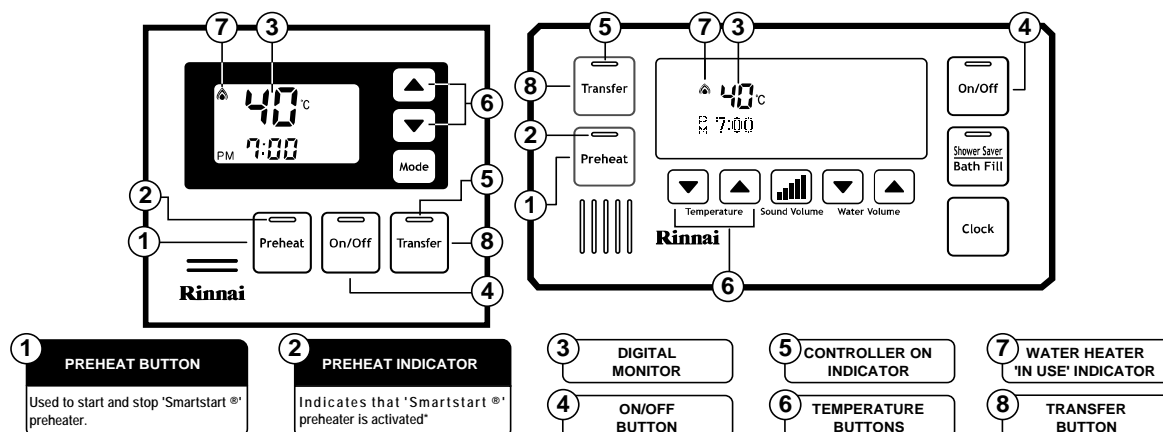
USING MULTIPLE CONTROLLERS

The water heater can be turned on and off at any remote controller. If more than one remote controller is fitted press the 'Transfer' button to transfer priority to the desired remote controller.

COMBINING UNIVERSAL AND DELUXE CONTROLLERS

Universal and Deluxe Controller can be combined and will function as described in other sections of the Water Heater Operation / Installation Manual. Refer to page 1 to confirm the maximum number and combination of remote controllers that can be fitted to your water heater model.

SMARTSTART® PRE-HEAT OPERATION

ABOUT THE SMARTSTART® PRE-HEAT SYSTEM

1 PREHEAT BUTTON Used to start and stop 'Smartstart ®' preheater.	**2** PREHEAT INDICATOR Indicates that 'Smartstart ®' preheater is activated*	
3 DIGITAL MONITOR	**5** CONTROLLER ON INDICATOR	**7** WATER HEATER 'IN USE' INDICATOR
4 ON/OFF BUTTON	**6** TEMPERATURE BUTTONS	**8** TRANSFER BUTTON

Preheat Function

The "preheat" function works in conjunction with various Rinnai water heater models and the separately installed and optional Rinnai "Smartstart®" module.

When the "preheat" function is activated and used in accordance with these instructions, water in the pipework connected between the water heater and the hot water outlets in your house is warmed before any outlets are opened. This results in water savings and added convenience.

The preheat function is activated as follows:

1. Ensure that the hot water unit is on (temperature digits are displayed in the digital monitor ③). If more than one controller is fitted press the 'Transfer' ⑧ button to pass on priority to your desired controller, the 'Priority' ⑤ indicator will illuminate to confirm that priority has been assigned to this controller and that the hot water unit is ready to deliver hot water.

2. Select the desired temperature using the 'Temperature' ⑥ buttons until the required temperature is displayed in the digital monitor ③.

3. Press the 'Preheat' ① button once. The 'preheat' ② indicator and the 'In Use' ⑦ indicators will illuminate, signifying that the preheat system has been activated.

4. Wait approximately two minutes before opening an outlet. This will allow the water in the pipework to be warmed.

> ⚠ **NOTE**
>
> **The waiting time may be longer or shorter than two minutes depending on your particular installation configuration.**
>
> **The preheat function is cancelled 5 minutes after activation and the 'preheat' indicator will go out. This is to conserve energy. To reactivate, simply repeat steps 2-4 above.**
>
> *** If the 'preheat' button is pressed and the 'Smartstart®' preheat unit is not installed, the 'preheat' indicator will still light but there will be no preheat function. The 'preheat' indicator will go out after a short time and will not affect the other functions of the remote controller or water heater.**
>
> **After using the Shower Saver / Bath Fill function wait 30 seconds before activating the preheat function. Attempting to use the preheat function earlier will result in voice prompts being repeated until the system is reset. The system can be reset by pressing the 'On /Off' button twice.**

Other Remote Controller Functions

Remote controller functions such as temperature control and transfer of priority between multiple controllers is not affected by the operation of the preheat. Such functions are described in the applicable sections of this manual.

REMOTE CONTROLLER INSTALLATION

REMOTE CONTROLLERS

Remote Controllers are available as an optional extra. Universal and Deluxe Controller can be used together and will function as described in the Operation Section of this manual. Please refer to page 1 to confirm the maximum number and combination of controllers that can be fitted.

> ⚠ **NOTE**
>
> **Other manufacturers remote controllers are NOT compatible with Rinnai water heaters. These remote controllers must not be used with any Solar Boost water heater.**
>
> **Rinnai remote controllers brought in from other countries are not compatible with Rinnai appliances sold in Australia.**

POSITIONING OF REMOTE CONTROLLERS

Remote controllers must be installed in shaded and clean locations. They should be fitted out of reach of children (suggested height from floor to be at least 1500 mm). BC-100V remote controllers are water resistant, however, durability is improved when positioned outside the shower recess. All deluxe remote controllers must be installed at least 400 mm above the highest part of a sink, basin or bath.

> ⚠ **NOTE**
>
> - **Do not install remote controllers near a heat source, such as a cook top, stove or oven. Heat, steam, smoke and hot oil may cause damage.**
> - **Do not install remote controllers in direct sunlight.**
> - **The MC-100V remote contoller MUST NOT be installed in a bathroom.**
> - **Do not install remote controllers outdoors unless protection from dust ingress and sunlight are provided.**
> - **Do not install remote controllers against a metal wall unless the wall is earthed in accordance with AS3000.**
> - **Remote controllers MUST NOT be installed where chemicals such as benzine, alcohol, turpentine or other similar chemicals are in use.**
>
> **POSITIONING CONSIDERATIONS FOR THE MC-100V REMOTE CONTROLLER.**
>
> **The MC-100V uses a Liquid Crystal Display (LCD) for the digital monitor. Light reflections can make the LCD difficult to see at direct eye level.**
>
> **For best results when Installing the MC-100V mount the remote controller lower than your eye-level to avoid these light reflections.**
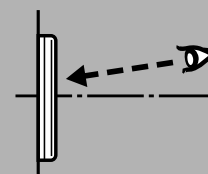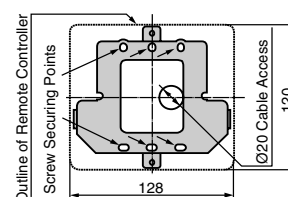
REMOTE CONTROLLER CABLES

Remote controllers operate at extra low voltage (12 Volts DC) which is supplied from the water heater. Controllers come supplied with 15 m of electrical cable. The appliance end of the controller cables are fitted with spade terminals. Extension cabling is available from Rinnai.

> ⚠ **NOTE**
>
> **Alternatively two core sheathed (double insulated) flex with minimum cross-sectional area of 0.5 mm² may be used. Maximum individual cable runs should not exceed 50 m.**

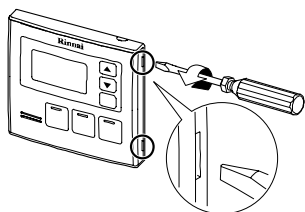## FITTING THE 'DELUXE KITCHEN' REMOTE CONTROLLER (MC-100V)

1. Determine the most suitable position for the remote controller (see note under "POSITIONING OF CONTROLLERS" on previous page).

2. Use the wall mounting bracket as a template to mark and drill 3 holes, locating the cable access hole as shown in Fig. 1.

3. Fix the mounting bracket to the wall using the approriate fixings.

4. Run the remote controller cable through the hole in the wall.

Fig.1

5. Carefully remove face plate from remote controller, using a screw driver. (Fig. 2)

6. Connect the controller cable to the kitchen remote controller as shown in Fig 3. At this point cables from other controllers (if fitted) may also be connected to the kitchen remote terminals (Fig. 4) eliminating the need for multiple cable runs directly to the water heater. Remote controllers are not polarity sensitive. Feed excess cable lengths into the wall cavity to avoid the pinching of cables between the wall and the remote controllers.

7. Fasten the remote controllers to the wall mounting bracket as shown in Fig. 5. Avoid the use of impact drills and the over-tightening of fixings as this may damage the remote controllers.
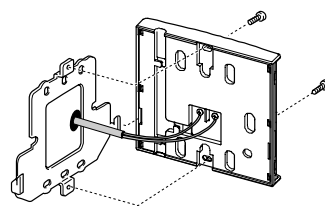
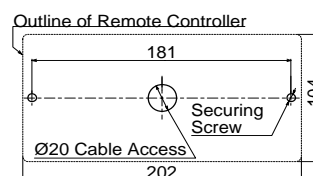8. Replace the face plate.
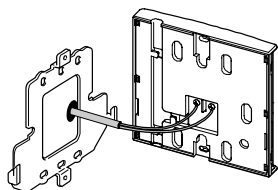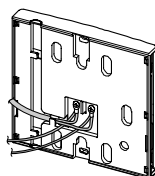
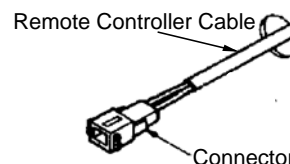**Fig. 2**   **Fig. 3**   **Fig. 4**   **Fig. 5**

**FITTING THE 'DELUXE BATHROOM' REMOTE CONTROLLER (BC-100V)**

1. Determine the most suitable position for the remote controller (see note under "POSITIONING OF REMOTE CONTROLLERS" on previous page).

2. Mark and drill 3 holes, locating the cable access hole as shown in Fig. 1.

3. When running a cable through the access hole ensure the connector end of the cable is located nearest to the controller. (Fig. 2)

4. Affix the double sided self-adhesive seal to the back of the remote controller. (Fig. 3)

Outline of Remote Controller

181

104

Securing Screw

Ø20 Cable Access

202

Fig. 1

5. Carefully remove the face plate from the remote controller, do this by placing your thumbs on the front of the digital display and while hooking your fingers behind top of plate and gently push as shown in Fig. 4, DO NOT use a screwdriver as this may damage the controller.

Remote Controller Cable

Connector

Fig. 2

6. Connect the cable to the bathroom remote controller. Feed excess cable lengths into the wall cavity to avoid the pinching of cables between the wall and the controller.

7. Fix the bathroom controller to the wall using the approriate fixings as shown in Fig. 5, avoid the use of impact drills and the over-tightening of fixings as this may damage the remote controller.
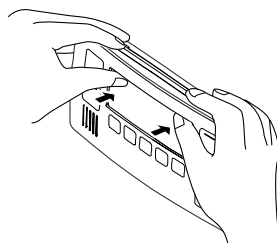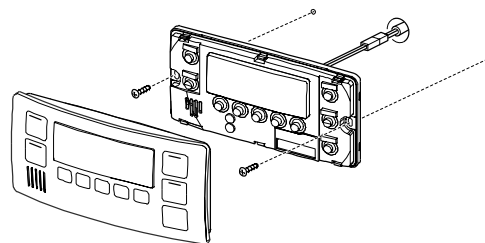
Backing Seal

Remove to expose self-adhesive
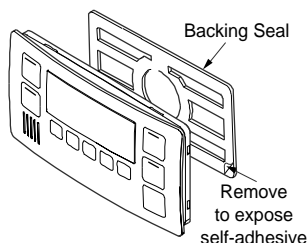
Fig. 3   **Fig. 4**   **Fig. 5**

8. Replace the face plate.
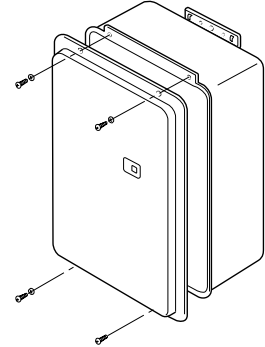
REMOTE CONTROLLER INSTALLATION

CONNECTING REMOTE CONTROLLER CABLES TO THE WATER HEATER

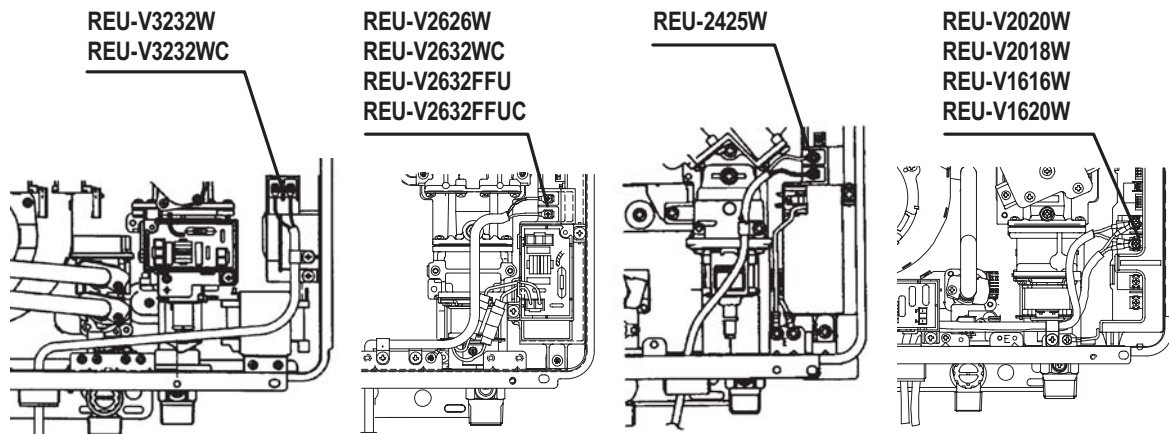| ⚠ WARNING	**DO NOT ATTEMPT TO CONNECT THE REMOTE CONTROLLER CABLE TERMINALS TO THE APPLIANCE WITH THE POWER TURNED ON DUE TO RISK OF ELECTRICAL SHOCK !**	⚠ CAUTION

1. Isolate the power supply.

2. Remove the appliance front cover (4 screws) as shown in Fig. 1.

3. Thread the cable(s) through the cable access hole at the base of the appliance.

4. Locate the position of the terminals (Fig. 2). Connect the spade connectors to the terminals on the P.C.B. Polarity is not important. Either wire colour can be connected to either terminal.

5. Replace cover of the appliance. Ensure that the special screw is placed at the bottom right hand corner for earthing purposes.

Fig. 1

Location of Remote Controller Terminals

REU-V3232W
REU-V3232WC

REU-V2626W
REU-V2632WC
REU-V2632FFU
REU-V2632FFUC

REU-2425W

REU-V2020W
REU-V2018W
REU-V1616W
REU-V1620W

Fig. 2

Connecting Three or More Remote Controllers

1. Isolate the power supply.

2. Remove the appliance front cover (4 screws) as shown in Fig. 1.

3. Cut the spade connectors from 2 of the controller cables to be connected to the appliance (4 spade connectors should be cut off) and discard. Connect the wires from these two cables and terminate into two new spade connectors as shown. Spade connectors are available from your local electrical component retailer (Fig. 3).

4. Thread the cable(s) through the cable access hole at the base of the appliance.

5. Locate the position of the terminals (Fig. 2), Connect the spade connectors to the terminals on the P.C.B. Polarity is not important. Either wire colour can be connected to either terminal.

6. Replace the appliance cover. Ensure that the special screw is placed at the bottom right hand corner for earthing purposes.

New spade connectors

Cable wires

Cable wires

Remote controller cable sheaths
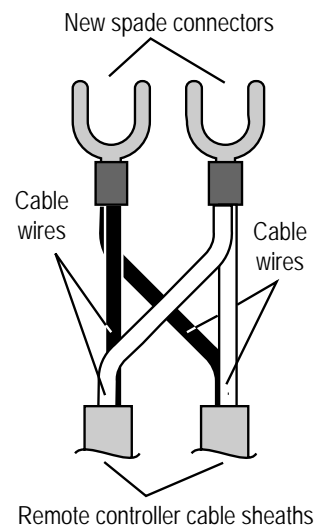
Fig. 3

NOTES

Rinnai

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Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires a service, please call our Hot Water Service Line. Rinnai recommends that this appliance be serviced every 3 years.

Internet: www.rinnai.com.au   E-mail: enquiry@rinnai.com.au

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Fax: 1300 300 141*
Cost of a local call Higher from mobile or public phones.

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