

WIRED REMOTE CONTROLLER

INSTALLATION MANUAL



English

Français

Español

MODEL BRC1E73

Be sure to read this installation manual before installing this product.

Veillez à lire ce manuel d'installation avant d'installer ce produit.

Asegúrese de leer este manual de instalación antes de instalar este producto.

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1. Safety Considerations

The original instructions are written in English. All other languages are translations of the original instructions.

All phases of the field-installation, including, but not limited to, electrical, piping, safety, etc. must be in accordance with manufacturer's instructions and must comply with national, state, provincial and local codes.

Read these SAFETY CONSIDERATIONS carefully before installing the remote controller.

After completing the installation, ensure that the remote controller operates properly during the startup operation.

Train the customer to operate and maintain the remote controller. Inform customers that they should store this Installation Manual with the Operation Manual for future reference.

Always use a licensed installer or contractor to install this product. Improper installation can result in electrical shock, fire, or explosion.

Meanings of WARNING, CAUTION, and NOTE Symbols.

\triangle	WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
	NOTE	Indicates situations that may result in equipment or property-damage accidents only.

Only qualified personnel must carry out the installation work.

Consult your Daikin dealer regarding relocation and reinstallation of the remote controller. Improper installation work may result in electric shocks or fire.

Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.

Improper installation may cause electrical shocks or fire.

Use only specified accessories and parts for installation work.

Failure to use specified parts may result in electric shocks, fire, or the unit falling.

Do not disassemble, reconstruct, or repair.

Electric shock or fire may occur.

Make sure that all wiring is secured, that specified wires are used, and that no external forces act on the terminal connections or wires.

Improper connections or installation may result in fire.

Before touching electrical parts, confirm the power-off to the unit.

Keep water out of the remote controller.

To avoid electric shock due to entry of water or insects, fill the wiring through-hole with putty.

Do not wash the remote controller with water as it may result in electrical shocks or fire.

Do not touch the remote controller buttons with wet fingers.

Touching the buttons with wet fingers can cause an electric shock.

Do not install the remote controller in the following locations:

- (a) Where a mineral oil mist or oil spray or vapor is produced, for example, in a kitchen. Plastic parts may deteriorate.
- (b) Where corrosive gas, such as sulfurous acid gas, is produced.
- (c) Near machinery emitting electromagnetic waves.
- Electromagnetic waves may disturb the operation of the control system and cause the unit to malfunction.
- (d) Where flammable gas may leak, where there is carbon fiber or ignitable dust suspensions in the air, or where volatile flammables such as thinner or gasoline are handled. Operating the unit in such conditions can cause a fire.
- (e) High temperature area or direct flame. Overheating and/or fire can occur.
- (f) Moist area, where there is exposure to water. If water enters the inside of the remote controller, it may cause electric shock and electrical components may fail.

Install the control wires for the indoor and the remote controller at least 3.5 feet (1 meter) away from televisions or radios to prevent image interference or noise. Depending on the radio waves, a distance of 3.5 feet (1 meter) may not be sufficient to eliminate the noise.

When remote controller's temperature sensor is used, select the installation location as per the following:

- A place where average temperature in the room can be detected.
- A place where it is not exposed to direct sunlight.
- A place where it is far away from any heat source.
- A place where it is not affected directly by outside air.

2. Accessories

The following accessories are included.

Drywall screw	Drywall anchor	Wire tie	Operation manual	Installation manual	Wiring retainer	
O.		<u>A</u>				
(2 pcs.)	(2 pcs.)	(1 pc.)	(1 pc.)	(1 pc.)	(1 pc.)	

3. Remote Controller Installation Procedure

3-1 Determine where to install the remote controller.

Make sure to follow the Safety Considerations when determining the location.

3-2 If the control wire for the remote controller is to be routed from the rear, consider the location of the access hole in the lower case for making a hole in the wall.



3-3 Remove upper case.

Insert a screwdriver in the recess of lower case to remove the upper case (2 points).



3-4 Determine the location where the wiring will enter the remote controller (back, left side, top left, top center).

3-4-1 Back outlet



Cut off resin area (notched area).

3-4-3 Top left outlet



Cut the plastic at the notched area and remove any remaining burrs.





Cut the plastic at the notched area and remove any remaining burrs.

3-4-4 Top center outlet



Cut the plastic at the notched area and remove any remaining burrs.

3-5 Install wiring.



- 1. Switch box and control wiring are filed supplied.
- 2. Do not touch the remote controller printed-circuit board.

Wiring Specifications

Wiring Type	Non-shielded, 2-conductor, stranded copper wire						
Wiring Size	AWG-18						
Wiring Length	Maximum 1640 feet (500 m)						

Prepare the wiring for connection to the remote controller following these instructions:



Length of jacket to be removed:

- Approx. 6 inch (150 mm) for top left outlet
- Approx. 8 inch (200 mm) for top center outlet

Connect the terminals (P/P1, N/P2) of the remote controller to the terminals (P1, P2) of the indoor unit. (P1 and P2 are not polarity sensitive.)

3-5-1 Back outlet





3-5-3 Top left outlet



3-5-4 Top center outlet



- 🗥 NOTE -

• To prevent electrical noise and possible communication errors, avoid installing the remote controller wiring parallel to or in the vicinity of line voltage circuits.

3-6 Installation procedure for the lower case.

When wiring the remote controller through the top center or rear access points, attachment of the wire to the lower case is required before it is wall mounted. Closely follow the wiring procedures.

3-6-1 Wall installation

Secure by using furnished drywall anchors and screws (2 pcs.).



3-6-2 Switch box installation

Secure by using field supplied machine screws (2 pcs.).



– 🗥 NOTE

- Install the control on a flat surface only.
- To prevent deformation of the lower case, avoid over-tightening the installation screws.

3-7 Install the upper case.

- Align the upper case with tabs of the lower case (6 points), insert and install the upper case.
- Install the wiring with care to prevent pinching.
- Peel off the protective membrane which overlays the upper case.



4. Functions and Menu Items of Remote Controller Buttons

4-1 Functions and menu items



- (1) Operation mode selector button Used to change the mode.
- (2) Fan speed control button Used to change the fan control.

(3) Menu/OK button

- Used to access the main menu. (For details of the main menu, see the operation manual.)
- Used to enter the item selected.

Main Menu

*Airflow Direction *Individual Airflow Direction *Ventilation Schedule Off Timer Celsius / Fahrenheit Filter Auto Clean Maintenance Information Configuration Current Settings Clock & Calendar Daylight Saving Time Language

*Depending on connected model

(4) Up button ▲

- Used to raise the setpoint temperature.
- The previous menu items will be highlighted.
 (The highlighted items will be scrolled continuously when the button is pressed continuously.)
- Used to change the selected item.

(5) Down button ▼

- Used to lower the setpoint temperature.
- Items below the currently selected item will be highlighted.
 (The highlighted items will be scrolled continuously when the button is pressed continuously.)
- Used to change the selected item.

(6) Right button ►

- Used to highlight items to the right of the currently selected item.
- Display contents are changed to next screen per page.

(7) Left button <

- Used to highlight items to the left of the currently selected item.
- Display contents are changed to previous screen per page.

(8) On/Off button

Press once to operate, and press once again to stop.

(9) Operation lamp

Green lamp lights up during operation. The lamp will flash if a malfunction occurs.

(10) Cancel button

- Used to return to the previous screen.
- Press and hold this button for 4 seconds or longer to display service settings menu.

(11) LCD (with backlight)

The backlight will illuminate for approximately 30 seconds by pressing any operation button.

- <u>^</u>NOTE -

- Operate the button while the backlight is illuminated.
- When one indoor unit is controlled by two remote controllers (main / sub) only the first controller to be accessed by the user will illuminate it's backlight.

4-2 Button menu display descriptions

<Service settings menu screen>



Service Settings menu

Test Operation Maintenance Contact Field Settings *Energy Saving Options Prohibit Function Min Setpoints Differential *Outdoor unit AirNet Address Error History *Indoor Unit Status *Outdoor Unit Status Forced Fan ON Switch Main Sub Controller Filter Indicator *Brush/Filter Ind. *Disable Filter Auto Clean

*Depending on connected model

5. Power-on

- Check for completion of indoor/outdoor unit wiring.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.



- NOTE -

When selecting a different language, refer to Chapter 12. Language.

(See page 22.)

6. Field Settings

- 6-1 Press and hold Cancel button for 4 seconds or longer. Service settings menu is displayed.
- **6-2** Select **Field Settings** in the Service Settings menu, and press **Menu/OK** button. Field settings screen is displayed.
- 6-3 Highlight the mode, and select desired "Mode No." by using ▲▼ (Up/Down) button.
- 6-4 In the case of setting per indoor unit during group control (When Mode No. such as 20, 21, 22, 23, 25 are selected), highlight the unit No. and select "Indoor unit No." to be set by using ▲▼ (Up/Down) button. (In the case of group setting, this operation is not needed.)

In the case of individual setting per indoor unit, current settings are displayed. And, SECOND CODE NO. " - " means no function.

6-5 Highlight SECOND CODE NO. of the FIRST CODE NO. to be changed, and select desired "SECOND CODE NO." by using ▲▼ (Up/Down) button. Multiple identical mode number settings are available.

In the case of setting for all indoor units in the remote control group, available SECOND CODE NO. is displayed as " * " which means it can be changed. When SECOND CODE NO. is displayed as " - ", there is no function.



- **6-6** Press **Menu/OK** button. Setting confirmation screen is displayed.
- 6-7 Select Yes and press Menu/OK button. Setting details are determined and field settings screen returns.
- 6-8 In the case of multiple setting changes, repeat "6-3" to "6-7".
- **6-9** After all setting changes are completed, press **Cancel** button twice.
- **6-10** Backlight goes out, and [Checking the connection. Please stand by.] is displayed for initialization. After the initialization, the basic screen returns.

NOTE

- Installation of optional accessories on the indoor unit may require changes to field settings. See the manual of the optional accessory.
- For field setting details related to the indoor unit, see installation manual shipped with the indoor unit.



<Setting confirmation screen>

~ ~	
6-6	Field Settings
6-7	Save the settings?
	Yes No
	. Setting >
	Press Menu/OK button.
	\bigtriangledown
	Setting confirmation

	13	I	I	I	I	I	5.4F (3.0C)	5.4F (3.0C)	5.4F (3.0C)	5.4F (3.0C)	5.4F (3.0C)	5.4F (3.0C)	I
	12	I	I	I	I	I	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	4.5F (2.5C)	I
	1	I	I	I	I	I	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	3.6F (2.0C)	I
	10	I	I	I	I	I	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	2.7F (1.5C)	I
	60	I	I	I	I	I	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	1.8F (1.0C)	I
	80	I	I	I	I	I	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	0.9F (0.5C)	I
2) settings)	07	I	I	I	I	I	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	±0.0F (±0.0C)	I
Vo. (Note	90	I	I	I	I	I	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	-0.9F (-0.5C)	I
nd Code N are facto	05	I	I	I	I	I	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	-1.8F (-1.0C)	I
Secol ms in bolo	40	I	I	I	I	I	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	-2.7F (-1.5C)	Cool/ Heat
(Iter	03	Only the remote controller thermistor will be utilized.	I	I	I	I	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	-3.6F (-2.0C)	Cool only
	02	The remote controller thermistor is not utilized. Only the return air thermistor will be utilized.	Thermistor designated by 10-2 above (Note 3)	1F (0.5C)	Utilize the remote controller thermistor	Level 3	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	-4.5F (-2.5C)	Heat only
	01	The return air thermistor is primary and the remote controller thermistor is secondary.	Return air thermistor	2F (1C)	Utilize the return air thermistor	Level 2	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	-5.4F (-3.0C)	N/A
Description	-	Priority of thermistor sensors for space temperature control	Room temperature value reported to multizone controllers	Thermo-on/off deadband (Note 4)	Thermistor sensor for auto changeover and setback control by the remote controller	Access permission level setting	Remote controller thermostat offset (Main RC, Auto mode) (Note 5)	Remote controller thermostat offset (Sub RC, Auto mode) (Note 5)	Remote controller thermostat offset (Main RC, Cool mode) (Note 5)	Remote controller thermostat offset (Main RC, Heat mode) (Note 5)	Remote controller thermostat offset (Sub RC, Cool mode) (Note 5)	Remote controller thermostat offset (Sub RC, Heat mode) (Note 5)	Setback availability
First Code	No	N	2J	2	-	ю	10	1	6	<u>5</u>	4	15	2
Mode. No.	(Note 1)	10 (20)		12 (22)					- 2				1e

- Notes) 1. Field settings are normally applied to the entire remote control group, however if individual indoor units in the remote control group require specific settings or for confirmation that settings have been established, utilize the mode number in parenthesis.
 - 2. Any features not supported by the connected indoor unit will not be displayed.
 - 3. When mode 10-2-01 is selected, only the return air temperature value is reported to the multizone controller.
 - 4. The actual default deadband value will depend upon the indoor unit model.
 - 5. If different offset values are set for cooling and heating modes, the following issues may occur in auto operation mode:
 - The indoor unit may switch more frequently between cooling/heating modes
 - The indoor unit may switch less frequently between cooling/heating modes
 - Setback on/off may happen more frequently
 - Setback on/off may happen less frequently

To avoid these issues, set the offset values for auto mode.

7. Test Operation

Also see installation manuals furnished with the indoor unit and the outdoor unit.

- Verify that the wiring of the indoor unit and the outdoor unit is completed.
- Ensure that covers have been replaced on electrical component boxes for both indoor and outdoor units prior to restoring power.
- After refrigerant piping, drain piping and electric wiring are completed, clean inside of the indoor unit and decorative panel.
- Perform the test operation according to following procedure.
- To protect the compressor, apply power to the outdoor unit at least 6 hours prior to test operation.
- Set the remote controller display mode to standard or detailed display mode. Refer to Operation Manual for the setting method.

Notes for backlight

- The backlight will be ON for 30 seconds by pressing any button.
- The initial push of the button will only turn on the backlight. While the backlight is turned on, the buttons assigned functionality will be available.
- **7-1** Set the operation mode to cooling by using the remote controller.
- **7-2** Press and hold **Cancel** button for 4 seconds or longer. Service settings menu is displayed.
- **7-3** Select **Test Operation** in the service settings menu, and press **Menu/OK** button. Basic screen returns and message "Test Operation" is displayed at the bottom.



 7-4 Press On/Off button within 10 seconds, and the test operation starts. Monitor the operation of the indoor unit for a minimum of 10 minutes. During test operation, the indoor unit will continue to cool regardless of the temperature setpoint and room temperature.

* Note) In the case of above-mentioned procedures **7-3** and **7-4** in reverse order, test operation can start as well.

- 7-5 Press Menu/OK button in the basic screen. Main menu is displayed.
- 7-6 In the case of a model having airflow direction function, select
 Airflow Direction in the main menu and check that airflow direction is actuated according to the setting. For operation of airflow direction setting, see the operation manual.
- **7-7** After the operation of airflow direction is confirmed, press **Menu/OK** button. Basic screen returns.
- 7-8 Press and hold Cancel button for 4 seconds or longer in the basic screen.
 Service settings menu is displayed.
- 7-9 Select Test Operation in the service settings menu, and press Menu/OK button. Basic screen returns and normal operation is conducted.
 * Note) The test operation will automatically finish in 30 minutes.
- **7-10** Check the functions according to the operation manual.
- **7-11** When the decorative panel is not installed, shut off the power supply after the test operation finishes.
- If construction activities are planned within the space following the test operation procedure, recommend to the customer that the indoor unit is not operated to prevent contamination from paints, drywall dust and other airborne materials.



<Basic screen>

- If operation is not possible due to a malfunction, refer to following Failure diagnosis method
- After the test operation finishes, check whether the error code history is displayed on the maintenance information screen of the main menu according to the following procedure.
- 7-12 Press Menu/OK button in the basic screen. Main menu screen is displayed.
- 7-13 Select Maintenance Information in the main menu, and press Menu/OK button.
- **7-14** Maintenance information screen is displayed. Check whether the error code history is displayed on the screen.
 - If no error code history is displayed following this procedure the system has normally completed the test operation mode.
- 7-15 If the error code history is displayed, conduct the failure diagnosis referring to <Error code list> in the installation manual of the indoor unit.
 After the failure diagnosis finishes, press and hold On/Off button for 4 seconds or longer in the maintenance information screen to erase the error code history.

Failure diagnosis method

- Whenever the remote controller display is blank or displays [Checking the connection. Please stand by.], troubleshoot the system with the items in the Description column of the following table.
- If an error occurs, CODE is displayed on the LCD as shown to the right. Conduct the failure analysis referring to <Error code list> in the installation manual of the indoor unit. When the unit No. which detected the error during group control is confirmed, refer to Chapter 8: Procedure

for Checking Error History.





Remote controller display	Description				
No display	 Power outage, power voltage error or open-phase Incorrect wiring (between indoor and outdoor units) Indoor printed-circuit board assembly failure Remote controller wiring not connected Remote controller failure Open fuse or tripped circuit breaker (outdoor unit) 				
Checking the connection. Please stand by. *	 Indoor printed-circuit board assembly failure Wrong wiring (between indoor and outdoor units) 				

^{* [}Checking the connection. Please stand by.] will be displayed for up to 90 seconds following the application of power to the indoor unit. This is normal and does not indicate a malfunction.

8. Procedure for Checking Error History

- 8-1 Press and hold Cancel button for 4 seconds or longer in the basic screen. Service settings menu is displayed.
- 8-2 Select Error History in the service settings menu, and press Menu/OK button. The error history menu screen is displayed.
- 8-3 Select **RC Error History** in the error history menu, and press **Menu/OK** button. Error codes and unit No. can be confirmed in the RC error history screen.
- **8-4** In the error history, the 10 most recent items are displayed in order of occurrence.
- 8-5 Press Cancel button in the RC error history screen 3 times. The basic screen returns.



Latest record

9. Adding Maintenance Contact Information

- Registration of the maintenance contact.
- **9-1** Press and hold **Cancel** button for 4 seconds or longer in the basic screen. Service settings menu is displayed.
- 9-2 Select Maintenance Contact in the service settings menu, and press Menu/OK button. Maintenance contact menu screen is displayed.
- 9-3 Select Maintenance Contact, and press Menu/OK button.
- 9-4 Enter the telephone number.
 Scroll through the numbers by using
 ▲▼ (Up/Down) buttons. Start from the left side. Blank digits should remain as
- **9-5** Press **Menu/OK** button. Setting confirmation screen is displayed.
- **9-6** Select Yes and press Menu/OK button. Setting details are saved and service settings menu screen returns.
- **9-7** Press **Cancel** button once. The basic screen returns.



<Service settings menu screen>

10. Confirming Registered Details

10-1 Press **Menu/OK** button in the basic screen.

Main menu is displayed. Select Maintenance Information in the main menu, and press Menu/OK button.

10-2 Press **Cancel** button twice. The basic screen returns.





11. Clock & Calendar

<Basic screen> 11-1 Press Menu/OK button in the basic screen Main menu is displayed. <Main menu screen> Select Clock & Calendar in the main 11-1 menu, press Menu/OK button. Main Menu 2/3 Filter Auto Clean Maintenance Information 11-2 Press ▲▼ buttons to Configuration Current Setting select Date & Time on the clock & Clock & Calendar Davlight Saving Time calendar screen. Press Menu/OK button. . * The date & time screen will appear when Menu/OK button is pressed. 11-2 Clock & Calendar Date & Time 12H/24H Clock Press Menu/OK button. . $\overline{}$

11-3 Select year, month, day and time by using ▲ (Left/Right) button and set by using ▲ (Up/Down) button in the date & time screen. Press and hold the button for continuous change of the numeric value.

* Day of the week is set automatically.

- **11-4** Press **Menu/OK** button. Setting confirmation screen is displayed.
- **11-5** Select Yes and press Menu/OK button. Setting details are saved and basic screen returns.
- * If power outage exceeds 48 hours, reset is needed.



<Basic screen>

12. Language

- 12-1 Press Menu/OK button in the basic screen.
 Main menu is displayed.
 Select Language in the main menu, press Menu/OK button.
- 12-2 Press ▲▼ (Up/Down) buttons to select Language on the language screen. English/Français/Español Press Menu/OK button.





Setting

<Main menu screen>



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