IMPORTANT NOTE:
Please read this manual carefully before installing or operating your wired remote controller. Make sure to save this manual for future reference.
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## Installation and Owner’s Manual

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1. Safety Precautions

Wired Remote Controller

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- To ensure the correct service of the wired controller read this manual carefully before using the unit.
- Keep this manual after reading for future reference.

**WARNING**

- Carefully read the Safety Precautions before installation. Adhere to this installation manual.
- Only trained and qualified HVAC technicians should install, repair and service this air conditioning unit, strictly follow the installation instructions set forth in this manual. Improper installation may result in electrical shock, short circuit, leaks, fire or other damage to the equipment and personal property.
- Reinstallation must be performed by a qualified service technician.

**WARNINGS FOR PRODUCT USE**

- **DO NOT** install the unit in a place vulnerable to leakage of flammable gases. If flammable gases leak or linger around the wired controller, fire may occur.
- **CODES, REGULATIONS, AND STANDARDS**
  The installer/contractor assumes responsibility to ensure that the installation complies with the relevant council, state/federal codes, regulations and building code standards. All electrical wiring must be in accordance with current electrical authority regulations and all wiring connections to be as per the electrical diagram/s provided with the unit.

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**Read Safety Precautions Before Installation**

Thank you for purchasing this air conditioner. This manual will provide you with information on how to operate, maintain, and troubleshoot your air conditioner. Following the instructions will ensure the proper function and extended lifespan of your unit.

Please pay attention to the following signs:

**WARNING**

Failure to observe a warning may result in death or serious injury. The appliance must be installed in accordance with national regulations.

Failure to observe a caution may result in injury or equipment damage.

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Product design and specifications are subject to change without prior notice for product improvement.
2. Installation Components

Wired Remote Controller

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Qty</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wired controller</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Installation and owner’s manual</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>Screws</td>
<td>3</td>
<td>M4X20 (for mounting on the wall)</td>
</tr>
<tr>
<td>4</td>
<td>Wall plugs</td>
<td>3</td>
<td>For mounting on the wall</td>
</tr>
<tr>
<td>5</td>
<td>Screws</td>
<td>2</td>
<td>M4X25 (for mounting on switch box)</td>
</tr>
<tr>
<td>6</td>
<td>Plastic screw bars</td>
<td>2</td>
<td>For fixing on switch box</td>
</tr>
<tr>
<td>7</td>
<td>Battery</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>connecting cables</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

Precaution for the installation of the wired controller

1. This manual provides the installation method for the wired controller. Please refer to the wiring diagram in this installation manual to wire the wired controller with the indoor unit.
2. The wired controller uses extra-low voltage (ELV) only. **DO NOT** connect to low voltage 230VAC circuits or wiring as damage to wired controller will result. Maintain correct separations between ELV wiring and other 230VAC mains wiring.
3. The shielded wire of the wired controller must be properly grounded, see wiring diagram.
4. Upon finalising the wired controller connection, do not use an ohmmegger test to check the insulation.
3. Installation Method

1. Wired remote controller dimensions

Fig 3.1
2. Wiring Connection Diagram for Cassettes & Ducted

1. Connect wired controller to indoor unit mainboard using the connecting cables included. Connect the adaptor cable (smaller cable) first to the indoor main board. Then connect the wired controller using the longer connecting cable.

Fig 3.2

1. Open the front panel, identify the multi function box (See Fig.3.3.1).

2. Cut the terminal of the longer connection cable (See Fig 3.3.2).

3. Connect the four wires to each of the pins in the multi function board as follows:
   The red wire on wire controller connect to 12/5V pin on multi function board; black wire to E pin; yellow wire to Y pin; brown wire to X pin. (See Fig.3.3.1).

Fig 3.3.2

3. Wiring Connection For Wall Splits

1. Open the front panel, identify the multi function box (See Fig.3.3.1).

Fig 3.3.1

When connecting to 4-core wired controller:
12V = Red  
E = Black  
Y = Yellow  
X = Brown

2. Cut the terminal of the longer connection cable (See Fig 3.3.2).

3. Connect the four wires to each of the pins in the multi function board as follows:
   The red wire on wire controller connect to 12/5V pin on multi function board; black wire to E pin; yellow wire to Y pin; brown wire to X pin. (See Fig.3.3.1).
4. Wire controller - Removing the upper part

- Insert a flat screwdriver into the slots in the lower part of the wire controller (2 places).
- Remove the upper part of the wire controller (Fig.3.4)

![Slots](image)

**NOTE**

The PCB is mounted in the upper part of the wired controller. Be careful not to damage the board with the screwdriver.

5. Fasten the wire controller back plate

- For surface mounting, fasten the back plate on the wall with the 3 screws (M4x20) and plugs. (Fig.3.5)

![Back plate](image)

**NOTE**

Place on a flat surface. Be careful not to distort the wire controller’s back plate by over-tightening the mounting screws.
6. Battery installation

Fig 3.7

- Place the battery in the unit and ensure the positive side of the battery is in accordance with the polarity markings. (See Fig.3.7)
- Set the correct time before operating. Batteries in the wired controller can maintain the correct time during a power failure. When the power is restored and the displayed time is not correct, replace the battery.

7. Wiring the indoor unit

There are three methods:
1. from the rear;
2. from the bottom;
3. from the top;

4. Notch the part for the wiring to pass through with a nipper tool.

NOTE

**DO NOT** allow water to enter the remote control. Use a water loop and silastic to seal the wires.
3. Installation Method

Wired Remote Controller

8. Reattach the wire controller’s upper part

- While adjusting and mounting the upper case, avoid clamping the wiring during installation. (Fig 3.9)

**IMPORTANT:** All the pictures in this manual are for illustration purposes only. Your wire controller may differ slightly.

Fig 3.9
## 4. Specification

### Wired Remote Controller

**Wiring Specifications**

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>DC 12V</th>
</tr>
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<tbody>
<tr>
<td>Ambient Temperature</td>
<td>5°C~43°C</td>
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<tr>
<td>Ambient Humidity</td>
<td>RH40%~RH90%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wiring Type</th>
<th>Size</th>
<th>Total Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shielded PVC or cable</td>
<td>0.75mm²</td>
<td>≤ 20m</td>
</tr>
<tr>
<td></td>
<td>1.5mm²</td>
<td>≤ 50m</td>
</tr>
</tbody>
</table>
5. Feature and Function

Wired Remote Controller

Feature and Function of the Wired Controller

Feature:
• LCD display.
• Malfunction code display: displays the error code (helpful for servicing)
• 4-way wire layout design.
• Room temperature display.
• Weekly Timer

Function:
• Mode: choose Auto-Cool-Dry-Heat-Fan
• Fan speed: Auto-Low-Med-High
• Swing (on Wall Split and Cassettes)
• Timer ON/OFF
• Temp setting
• Weekly Timer
• Follow me
• Child Lock
• LCD Display
• Clock
• Elevating Panel Function (on Cassettes only)
6. Display

Wired Remote Controller

Wired Controller Display

1. Operation mode indicator
2. Fan speed indicator
3. Left-right swing indicator
4. Up-down swing indicator
5. Elevating Panel Function indicator
6. Main unit and secondary unit indicator
7. Follow me function indicator
8. Turbo/Auxiliary Heat function indicator
9. °C indicator
10. Temperature display
11. Lock indicator
12. Room temperature indicator
13. Clock display
14. On/Off timer
15. Timer display
7. Buttons

Wired Controller Buttons

1. Mode
2. Power
3. Adjust
4. Fan Speed
5. Swing
6. Timer
7. Day Off/Del
8. Copy/Follow me
9. Back/Turbo
10. Confirm
Set the current Day and Time

1. Press TIMER for 3s or more. The timer displays flashes.

2. Press + or – to set the date. The selected date flashes.

3. Date setting is complete and the time setting is ready after pressing TIMER or if nothing is pressed in 10 seconds.

4. Press + or – to set the current time. Press repeatedly to adjust the current time in 1 minute increments. Press and hold to adjust the current time.

5. The setting is complete after pressing TIMER or if no button is pressed for 10 seconds.
9. Operation

To Start/Stop Operation

Press the Power Button

To Set The Operation Mode (operating mode setting)

Press MODE to set the operation mode.

Room Temperature Setting

Press + or - to set the room temperature.

Indoor Setting Temperature Range: (17-30°C).
9. Operation  Wired Remote Controller

**Fan Speed Setting**

Press **FAN SPEED** to set the fan speed.

**NOTE:** This function is unavailable in the AUTO or DRY modes

![Fan speed (Lock)](image)

**Room Temperature Sensor Selection**

Press **FOLLOW ME** to select whether the room temperature is detected at the indoor unit or at the wired controller.

**NOTE:** When the **FOLLOW ME** function indication appears, the room temperature is detected at the wire remote controller.

![Room temperature sensor selection](image)

**Child Lock Function**

Press **LOCK** for 3 seconds to activate the **CHILD LOCK** feature and lock all buttons on the wired controller. Press again for 3 seconds to deactivate.

**NOTE:** When the child lock function is activated, the lock image appears.

![Child lock function](image)
9. Operation

Wired Remote Controller

Keypad Tone Setting

Press **SWING** and **TIMER** simultaneously for 3 seconds to disable the keypad tone. Press the buttons again for 3 seconds to enable the keypad tone.

![Keypad Tone Setting Diagram]

Turbo

- Press **TURBO** to activate/deactivate the Turbo function. The turbo function sets the unit to reach the user's present temperature in the shortest amount of time possible.
- When the user presses **TURBO**, the unit sets to the highest fan speed setting to jump-start the cooling / heating process.

![Turbo Diagram]

Elevating Panel Function (only for Cassette models)

1. When the unit is off Press the **MODE** button long to activate the lift panel function. The **F2** mark will flash.

2. Press the button + and - to control the lift and drop of the panel. Pressing the + button can stop the panel, while it is dropping. Pressing the - button can stop the panel, while it is lifting.

![Elevating Panel Function Diagram]
9. Operation

Swing Function (for Cassette models)

Up-Down airflow direction and swing

- Use **SWING** to adjust the up and down airflow direction
  1. Every time the user presses **SWING**, the louvre swings six degrees.
  2. Press and hold **SWING** for 2 seconds, it changes to the **UP−DOWN SWING** mode. Press **SWING** again to stop. When the Up-Down swing function is activated, the mark appears. (Not applicable to all the models)

- The operation can refer to the following instructions for the unit with four Up-Down louvres can be operated individually.
  1. Press the **SWING** button to activate the Up-Down adjusting louvre function. The mark will flash. (Not applicable to all the models)

  - Pressing the button “+” or “−” can select the movement of four louvres. Each time you push the button, the wire controller select in a sequence that goes from: (the icon means the four louvres move at the same time.)

  3. And then use **SWING** button to adjust the Up-Down airflow direction of the selected louvre.
9. Operation

Swing Function (for Wall Split models)

1. Up-Down swing

Press the Swing button to start up-down swing function.
Press it again to stop.
When the Up-Down swing function is activated, the mark appears.

2. Left-Right swing

Press the Swing button long to start Left-Right swing function.
Press it again to stop.
When the Left-Right swing function is activated, the mark appears.
10. Timer Functions

Wired Remote Controller

Timer Overview

Weekly Timer

Use to set the operating times for each day of the week.

On Timer

Use to start the air conditioner operation.
The timer operates and the air conditioner operation starts after the time has passed.

Off Timer

Use to stop the air conditioner operation.
The timer operates and the air conditioner operation stops after the time has passed.

On and Off Timer

Use to start and stop the air conditioner operation.
The timer operates and the air conditioner operation starts and stops after the time has passed.
To Set the On or Off Timer

1. Press Timer to select the Day On or Day Off button.

2. Press Confirm and the Clock display flashes.

3. Press + or – to set the time. After the time is set, the timer starts or stops automatically.

4. Press Confirm again to finish the settings.
To Set the On and Off Timer

1. Press **Timer** to select the **Day** button.

![Timer button](image)

2. Press **Confirm** and the Clock display flashes.

![Confirm button](image)

3. Press the button + or − to set the **On Timer** and then press **Confirm**.

![Button + or −](image)

4. Press the button + or − to set the **Off Timer**.

![Button + or −](image)

5. Press **Confirm** to finish the setting.

![Confirm button](image)
1. Weekly Timer Setting

Press Timer to select the **Week** and press confirm.

2. Day Of The Week Setting

Press the button + or − to select the day of the week and then press Confirm.

3. Event timer setting

Press the button + or − to select the setting time. The setting time, mode, temperature and fan speed appear on the LCD. Press Confirm to enter the setting time process.
11. Weekly Timer

Wired Remote Controller

**IMPORTANT**

Up to 8 scheduled events can be set on one day. Various events can be scheduled in either MODE, TEMPERATURE and FAN speeds.

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4. Timer Setting

Press + and − to set the time then press **Confirm**.

- **NOTE:** To set the off time event refer to step 8.

5. Operation Mode Setting

Press + and − to set the operation mode then press **Confirm**.

- **NOTE:** This setting is unavailable in the FAN or OFF modes.

6. Room Temperature Setting

Press + and − to set the room temperature then press **Confirm**.
7. Fan Speed Setting

Press + and − to set the fan speed then press Confirm.

NOTE: This setting is unavailable in the AUTO, DRY or OFF modes.

8. Off Mode Setting

Press + and − to set the operation off then press Confirm.

9. Different Scheduled Events

Different scheduled events can be set by repeating steps 3 through 7.

10. Additional Days

Additional days, in a one week period, can be set by repeating steps 3 through 8.

NOTE: The weekly timer setting can be returned to the previous step by pressing BACK. The current setting is restored. The controller will not save the weekly timer settings if there is no operation within 30 seconds.
11. Weekly Timer

To Start

Press Timer to select the **Week**, and then the timer starts automatically.

To Cancel

Press Power to cancel the timer mode.

The timer mode can also be cancelled by changing the timer mode using Timer.

To Set The Day Off (for a holiday)

1. After setting the weekly timer, press **Confirm**.

2. Press + or – to select the day of the week.
3. Press **DAY OFF** to create an off day.

![Diagram showing the mark is hidden]

**Example:** The DAY OFF is set for Wednesday

4. Set the **DAY OFF** for other days by repeating the steps 2 and 3.

5. Press **BACK** to revert to the weekly timer.

**To Create An Off Day**

- To cancel, follow the same procedures used for setup

  **NOTE:** The DAY OFF setting is cancelled automatically after the set day has passed.

**To Copy Out The Setting**

Copy out the setting in one day into the other day.

- A scheduled event, made once, can be copied to another day of the week. The scheduled events of the selected day of the week will be copied. The effective use of the copy mode ensures the ease of reservation making.

1. In the weekly timer, press **Confirm**.

2. Press + or − to select the day to copy from.
To Copy Out The Setting (continued)

3. Press COPY, the letters CY appear on the LCD.

4. Press + or − to select the day to copy to.

5. Press COPY to confirm.

6. Other days can be copied by repeating steps 4 and 5.

7. Press Confirm to confirm the settings.

8. Press BACK to revert to the weekly timer.
11. Weekly Timer

Delete The Time Scale In One Day

To Delete the time scale in one day.

1. During the weekly timer setting, press **Confirm**.

2. Press + and − to select the day of the week and then press **Confirm**.

3. Press + and − to select the setting time want to delete.
   The setting time, mode, temperature and fan speed appear on the LCD.
   The setting time, mode, temperature and fan speed can be deleted by pressing the **DEL** (day off).

ex. Delete the time scale 1 in Saturday
### Error Codes

<table>
<thead>
<tr>
<th>Error Codes</th>
<th>Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>E0</td>
<td>Phase sequence error or phase malfunction</td>
</tr>
<tr>
<td>E1</td>
<td>Communication malfunction between indoor and outdoor units</td>
</tr>
<tr>
<td>E2</td>
<td>T1 sensor malfunction</td>
</tr>
<tr>
<td>E3</td>
<td>T2A sensor malfunction</td>
</tr>
<tr>
<td>E4</td>
<td>T2B sensor malfunction</td>
</tr>
<tr>
<td>E5</td>
<td>T3 or T3 or TP sensor malfunction</td>
</tr>
<tr>
<td>E6</td>
<td>Zero check malfunction</td>
</tr>
<tr>
<td>E7</td>
<td>Indoor EERROM malfunction</td>
</tr>
<tr>
<td>E8</td>
<td>Fan controller out of control</td>
</tr>
<tr>
<td>E9</td>
<td>Communication malfunction between main PCB and display board</td>
</tr>
<tr>
<td>EA</td>
<td>Compressor overload (4 times)</td>
</tr>
<tr>
<td>EB</td>
<td>IPM mould malfunction</td>
</tr>
<tr>
<td>EC</td>
<td>Air clean malfunction</td>
</tr>
<tr>
<td>ED</td>
<td>Outdoor malfunction protection</td>
</tr>
<tr>
<td>EE</td>
<td>Full-water malfunction</td>
</tr>
<tr>
<td>EF</td>
<td>Other fault</td>
</tr>
<tr>
<td>P0</td>
<td>Evaporator temperature protection</td>
</tr>
<tr>
<td>P1</td>
<td>Enter anti-code or defrost mode</td>
</tr>
<tr>
<td>P2</td>
<td>Condenser temperature protection</td>
</tr>
<tr>
<td>P3</td>
<td>Compressor temperature protection</td>
</tr>
</tbody>
</table>

Please check the indoor unit’s error display and review the owner’s manual if other error codes appear.
### Error Codes

<table>
<thead>
<tr>
<th>Error Codes</th>
<th>Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4</td>
<td>Discharge pipe temperature protection</td>
</tr>
<tr>
<td>P5</td>
<td>Discharge high pressure protection</td>
</tr>
<tr>
<td>P6</td>
<td>Discharge low pressure protection</td>
</tr>
<tr>
<td>P7</td>
<td>Over-voltage protection</td>
</tr>
<tr>
<td>P8</td>
<td>Compressor overload protection</td>
</tr>
<tr>
<td>P9</td>
<td>Reserve code</td>
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<tr>
<td>PA</td>
<td>Reserve code</td>
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<td>PB</td>
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<tr>
<td>PE</td>
<td>Reserve code</td>
</tr>
<tr>
<td>PF</td>
<td>Other fault</td>
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</tbody>
</table>

Please check the indoor unit’s error display and review the owner’s manual if other error codes appear.