

Wired Weekly Programmable Wall-Mounted Controller

Installation and Owner's Manual

PIONEER®

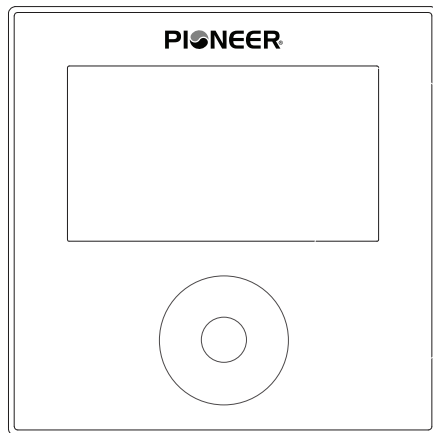
MODEL:

TST-WPT-540L

Compatible With:

- WYT-20/24/25
- CYT-24
- UYT-24
- RYT-24

Product Series



IMPORTANT NOTE:

Please read this manual carefully before installing or operating your wired remote controller. Be sure to save this manual for future reference.



REV250407

About This Manual

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This manual provides important safety information and operating instructions for the wired wall-mounted thermostat. To ensure proper use and optimal performance, please read this manual carefully before operating the unit.

For future reference, keep this manual in a safe and accessible location.

Please note that the images included in this manual are for illustrative purposes only. The appearance of your actual wired controller may vary slightly depending on the specific model. In all cases, the actual product takes precedence.

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Safety Precautions

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WARNING

- Installation must be performed by the distributor or qualified professionals.
- Installation by untrained individuals may result in improper setup, electric shock, or fire.
- Always follow the instructions in this manual.
- Incorrect installation can cause electric shock or fire.
- Reinstallation must also be carried out by professionals.
- **Do not uninstall the unit arbitrarily.**
Uninstalling the unit without proper procedures may lead to malfunction, heating issues, or risk of fire in the air conditioning system.

NOTE

- Do not install the unit in areas where flammable gases may leak. Accumulation of such gases around the wired controller may result in fire.
- Do not operate the unit with wet hands or allow water to enter the wired controller. Doing so may cause electric shock.
- Ensure the wiring is compatible with the current rating of the controller. Mismatched wiring may cause electrical leakage, overheating, or fire. Use only the specified cable types for wiring. Do not apply excessive force to terminals. Doing so may damage the wires, leading to overheating or fire.

Installation Accessories

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Selecting the Installation Location

Do not install the unit in locations exposed to heavy oil, steam, or sulfur-containing gases. Exposure to such substances may deform the product and cause system malfunction.

Preparation Before Installation

Before beginning installation, please confirm that all of the following components have been provided:

Item Number	Item Name	Quantity	Remarks
1	Wired Controller	1	———
2	Owner's Manual	1	———
3	Mounting Screws	3	M3.5x25 (For Wall Mounting)
4	Wall Plugs	3	For Wall Mounting
5	Mounting Screws	2	M4x25 (For Switch Box)
6	Battery	1	———
7	Connection Wire Set	1	(Optional)
8	Mounting Screws	1	M4x8 (For Connecting Wire)

Installation Accessories

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Prepare the following items on-site:

Item Number	Item Name	Quantity	Remarks
1	Switch Box	1	_____
2	Wiring Tube (with Insulating Sleeve and Tightening Screw)	1	_____

Precautions for Installing the Wired Controller

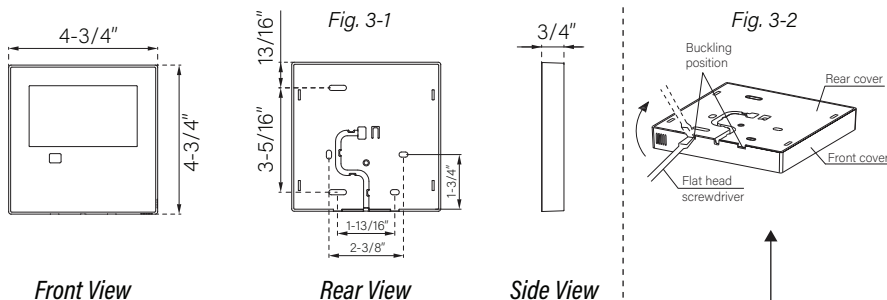
1. This manual provides instructions for installing the wired controller.
 - A. Refer to the wiring diagram within this manual for correct connection of the wired controller to the indoor unit.
2. The wired controller operates in a low-voltage circuit.
 - A. Do not connect or route high-voltage cables (e.g., 115V, 220V, 380V) within this loop.
 - B. Ensure a minimum separation distance of 12–20 in. (or more) between low-voltage and high-voltage wiring.
3. The shielded wire of the wired controller must be properly grounded.
4. After completing the wiring connection, **do not use a megohmmeter** (insulation resistance tester) to test the insulation, as this may damage the controller.

Installation Process

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Wired Remote Controller - Structural Dimensions

Refer to the diagram below for the physical dimensions of the wired controller.



Removing the Upper Cover of the Wired Controller

To access the internal wiring and mounting screws:

- Insert a flat-head screwdriver into the two slots located at the bottom of the wired controller.
- Carefully release the clips to detach and lift off the front cover (Fig. 3-2).

Note: Take care not to apply excessive force when prying open the casing to avoid damaging the plastic components.

Installation Process

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Note: The PCB (Printed Circuit Board) is located in the upper section of the controller. Use caution when using a screwdriver to avoid damaging the board.

Fasten the Back Plate of the Wired Controller

- **For exposed wall mounting:**

- Use three screws (M3.5 × 25) and corresponding wall plugs to secure the back plate directly to the wall surface.
- Refer to **Fig. 3-3** for proper screw placement.

- **For mounting on a standard 86 switch box:**

- Use two M4 × 25 screws to secure the back plate to the switch box.
- Use an additional M4 × 25 screw to anchor the back plate to the wall for added stability.
- Refer to **Fig. 3-4** for guidance.

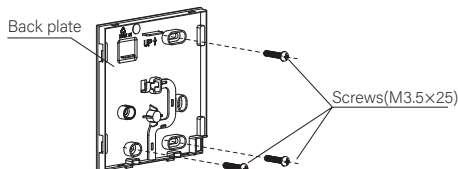


Fig 3-3

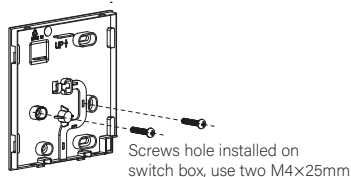


Fig 3-4

Installation Process

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Note: Place the wired controller on a flat surface during installation. Avoid overtightening the mounting screws, as it may distort/damage the back plate.

Battery Installation

Insert the battery into the designated battery compartment, ensuring the positive (+) side of the battery aligns with the positive terminal in the compartment (see Fig. 3-5).

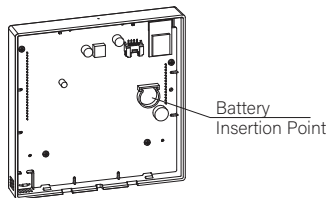


Fig 3-5

Upon first-time use, set the correct time on the controller. The internal battery allows the controller to retain the clock settings during power outages.

If, after power is restored, the displayed time is incorrect, it indicates that the battery has failed and should be replaced.

Installation Process

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Refer to Figures 3-6 and 3-7 for proper wiring layout.

- Connect the wired controller to the indoor unit using the designated terminal port as shown in Fig. 3-6.
- Create a notch in the back plate or switch box to allow the wiring to pass through. Use wire cutters/snippers for a clean and accurate cut (Fig. 3-7).

Fig 3-6

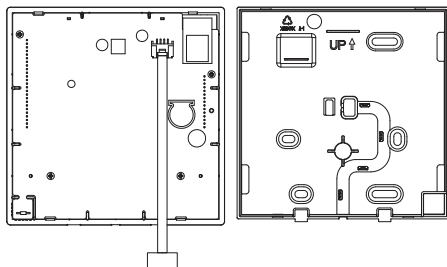
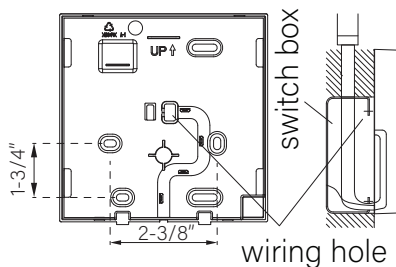


Fig 3-7



Note:

- Do not allow water or moisture to enter the remote controller during or after installation.
- Use sealing materials such as putty and drip traps to seal around the wire entry points and prevent water intrusion.

Installation Process

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Connect the wire from the master control board of the indoor unit to the connection cable. Then, connect the other end of the cable to the wired remote controller, as shown in Fig. 3-8.

- Use a 4-conductor wire for communication.
- The connective wiring harness should include a magnetic ring to help suppress electrical interference.
- Use shielded wire to reduce signal noise and ensure stable operation.

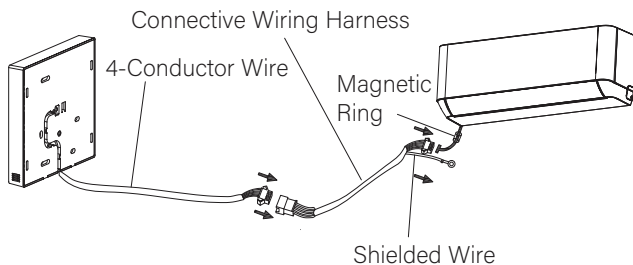


Fig. 3-8

Note:

- Leave sufficient slack in the connective wire to allow for future maintenance or service.
- At the end of the shielded wire, there is a grounding lug. Ensure this lug is properly connected to a reliable ground point to maintain electrical safety and signal integrity.

Installation Process

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Reattach the Upper Cover of the Wired Controller

- Align the upper cover and snap it securely back into place.
- Ensure that no wires are pinched or obstructed during reassembly. (See Fig. 3-9)

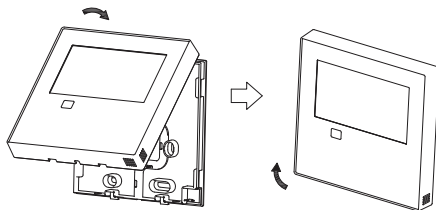


Fig 3-9

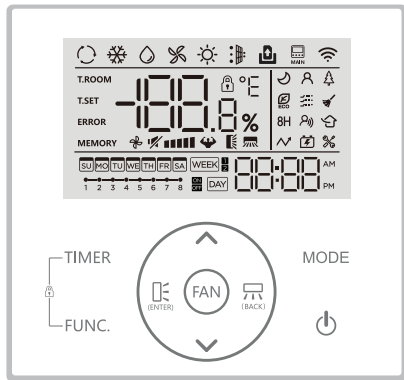
The illustrations in this manual are for reference only. The actual appearance of your wired controller may vary depending on the model. In all cases, the actual product shall take precedence.

Specifications

Input Voltage	DC 5V / 12V
Operating Temperature	23°F to 110°F (-5°C to 43°C)
Operating Humidity	40% RH to 90% RH
Wiring Type	Shielded Control Cable
Wiring Size	20–16 AWG
Total Wiring Length	≤ 164 ft (50 m)

Controller Overview

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Controller Features

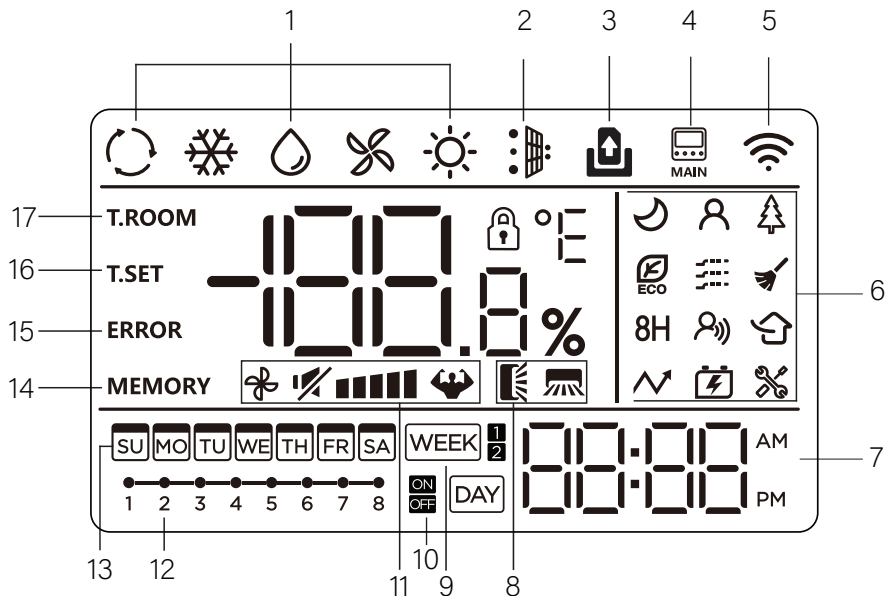
- **LCD Display:** Clear and intuitive display of system status and settings.
- **Error Code Display:** Automatically shows malfunction codes to aid in diagnostics and service.
- **4-Way Wire Entry Design:** Wiring can be routed from any side of the back panel (top, bottom, left, or right), with a flat back cover for easy wall installation.
- **Room Temperature Display:** Real-time indoor temperature monitoring.
- **Weekly Timer:** Program customized on/off schedules for daily and weekly operation.

Controller Functions

- **Mode Selection:** Auto/Cool/Dry/Heat/Fan Only/Turbo
- **Fan Speed Options:** Mute / Auto / Low / Medium-Low / Medium / Medium-High / High
- **Swing Function (on some models):** Enables motorized movement of the louver for direction control.
- **Timer ON/OFF:** Set automatic start and stop times.
- **Temperature Setting:** Adjust the desired room temp.
- **Weekly Timer:** Customize operation schedules for each day of the week.
- **Follow Me:** Uses the remote's internal sensor to regulate temperature near the user. (If enabled)
- **Time Display Options:** 24-hour or 12-hour format
- **Turbo Mode:** Enables rapid heating or cooling.
- **Auto-Restart (on some models):** Automatically resumes operation after power failure.
- **Child Lock:** Locks controller to prevent unintended use.
- **Individual Louver Control (on some models):** Allows separate control of each air outlet's direction.
- **Clock Display:** Built-in clock for time-related functions.
- **Automatic Airflow Test:** System function to verify proper airflow performance.
- **Panel Function (on some models):** Additional controls available directly from the indoor unit panel.

Controller Overview

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Refer to Page 15 for the explanation of each icon.

Controller Overview

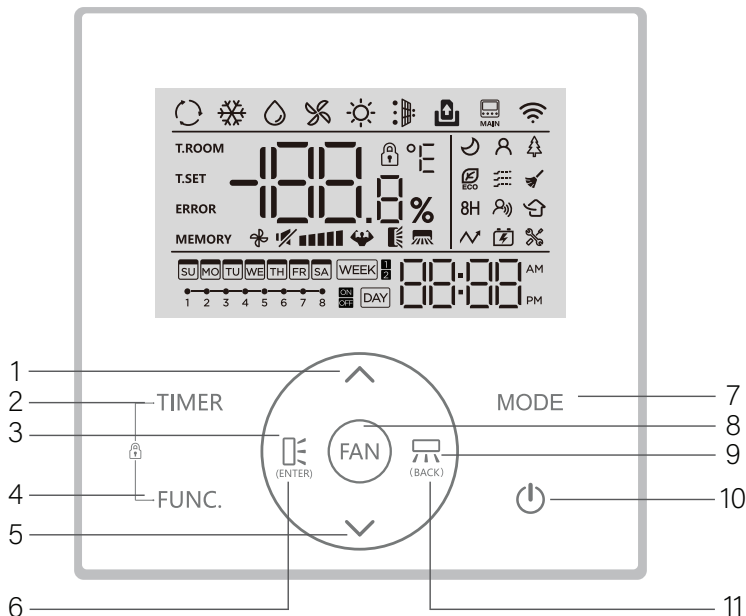
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Explanation of Controller Display Icons Depicted on Page 14:

No.	Icon / Indicator	Description
1	Mode	Displays the current operating mode. (Auto, Cool, Dry, Heat, Fan).
2	Dust Full	Indicates full dust bin. (on compatible models with filtration/cleaning systems)
3	Door Card	Shown when door card access is linked. (typically for hotel applications).
4	Main IDU	Indicates control over the main indoor unit.
5	Wi-Fi	Lit when Wi-Fi connection is active.
6	Function Icons	Miscellaneous feature icons. (e.g., Eco Mode, Turbo, Child Lock, Maintenance)
7	Clock	Shows the current time (12/24-hour format).
8	Swing	Indicates swing mode is active.
9	Week Timer	Active when weekly timer scheduling is in use.
10	Timer ON/OFF	Shows programmed timer status.
11	Fan Speed	Displays selected fan speed level.
12	Timer Task	Indicates scheduled timer tasks are set.
13	Week	Day-of-week display (SU-SA).
14	Power-Down Memory	Indicates settings memory is active after power loss.
15	Error	Displays error codes when a fault occurs.
16	Temperature Setting (T.SET)	Shows the user-set temperature.
17	Room Temperature (T.ROOM)	Displays the current room temperature.

Controller Overview

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Refer to Page 17 for the overview of each button.

Controller Overview

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Overview of Controller Buttons Depicted on Page 16:

No.	Button	Overview
1	[UP]	Adjusts temperature, time, or menu settings upward.
2	[TIMER]	Accesses the timer setup menu for ON/OFF scheduling.
3	[UP-DOWN SWING]	Activates vertical louver movement (if available).
4	[FUNC.] (Function)	Opens the function menu for advanced settings and features.
5	[DOWN]	Adjusts temperature, time, or menu settings downward.
6	[ENTER]	Confirms selections within menus or settings.
7	[MODE]	Cycles through operating modes: Auto, Cool, Dry, Heat, Fan Only.
8	[FAN SPEED]	Selects desired fan speed level.
9	[LEFT-RIGHT SWING]	Activates horizontal louver movement (on compatible models).
10	[ON/OFF]	Powers the unit on or off.
11	[BACK]	Returns to the previous screen or exits current setting mode.

User Guide

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Explanation of Controller Buttons and Their Corresponding Functions:

Button	Button Name	Function Explanation
	[ON/OFF] Button	Press the power button to turn the air conditioner on or off.
	[MODE]	Press the MODE button to cycle through the available operating modes: AUTO → COOL → DRY → FAN → HEAT
	[▲ UP / ▼ DOWN]	- Press ▲ to increase the set temperature or adjust time values. - Press ▼ to decrease the set temperature or adjust time values.
	[FAN SPEED]	Press the FAN button to cycle through fan speed settings: Mute → Low → Medium-Low → Medium → Medium-High → High → Turbo → Auto Speed
	[UP-DOWN SWING] / [ENTER]	Press this button (ENTER) to toggle the vertical (up-down) swing function. When navigating settings, press this button to confirm your selection.
	[LEFT-RIGHT SWING] / [BACK]	Press this button (BACK) to toggle the horizontal (left-right) swing function. When navigating settings, press this button to return to the previous menu.
	[FUNCTION]	Press the FUNC button to enter function selection mode. - The currently selected function icon will blink. - Use the ▲ / ▼ buttons to scroll through the available functions. - If the icon remains lit, the function is active. - If the icon turns off, the function is inactive.

User Guide

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Explanation of Additional Functions (Activated with FUNC. Button):

Button Name	Function Explanation
SLEEP Mode	When the  icon blinks, press ENTER to toggle the Sleep Mode, which adjusts temperature automatically for nighttime comfort.
I FEEL Function	When the  icon blinks, press ENTER to toggle the I Feel function, using the remote's built-in temperature sensor for precise control near the user.
HEALTH Mode	When the  icon blinks, press ENTER to activate or deactivate the Health Mode, which may include ionization or air purification features (depending on model).
ECO Mode	When the  icon blinks, press ENTER to enable or disable Energy-Saving Mode for reduced power consumption.
GENTLE Airflow	When the  icon blinks, press ENTER to toggle Gentle Mode, which softens airflow for a quieter, more comfortable breeze.
SELF-CLEANING	When the  icon blinks, press ENTER to activate or deactivate the Self-Cleaning function (only when the unit is powered off).
8H Mode	When the  icon blinks, press ENTER to toggle the 8-hour heating mode, typically used for minimal background heating.
GENERATOR Mode	When the  icon blinks, press ENTER to open the Generator Gear Selection interface: • Use  /  to scroll through gear levels: OF → L1 → L2 → L3. • Press ENTER to confirm your selection. The chosen gear will remain lit. • Selecting OF disables the generator mode, and the icon will disappear.
PARAMETER SETTING	When the  icon blinks, press ENTER to access the Parameter Setting interface. • The timer zone will begin blinking. • The controller will display the current device function code. • The temperature setting area will show the corresponding parameter value.

User Guide

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Parameter Setting

You can change device function settings using the ▲ / ▼ buttons to scroll through function codes.

- Press ENTER to select a function code and access its parameter.
- The temp. display zone will then blink and show current parameter value.
- Use ▲ / ▼ again to adjust the parameter.
- Press ENTER to confirm your selection.
- Press the Power button to exit the parameter setting mode.

Code	Function	Parameter	Description
P6	Fahrenheit/Celsius Display	F / C	F = °F display, C = °C display
PA	Ambient / Set Temperature Display	00 / 01	00 = Show Set Temp, 01 = Show Ambient Temp
PD	Buzzer (Button Sound) On/Off	ON / OFF	Toggle button press sound
A8	Maximum Backlight Brightness (%)	30 - 100	Set the brightness level (as a percentage)
B3	Dust Full Reminder	ON / OFF	Enable or disable dust filter reminder (if supported)
B4	Clock Display Format	12 / 24	12 = 12-hour, 24 = 24-hour time format

User Guide

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Real-Time Clock Setting

To manually set the day and time:

1. Press and hold the **TIMER** button for more than 2 seconds.
 - The timer zone will blink and the day of the week will appear.
2. Use the ▲ / ▼ buttons to select day of the week, then ENTER to confirm.
3. The hour will begin blinking. Use ▲ / ▼ to adjust the hour, then press ENTER to confirm.
4. The minutes will then blink. Use ▲ / ▼ to adjust the minute value, and ENTER to confirm.
5. To quickly adjust any value, press and hold the ▲ or ▼ buttons.

Note: If the controller is connected to Wi-Fi, the current time will be automatically synced—manual setup is not necessary.

Auxiliary Functions

- **Child Lock**
 - To activate or deactivate the child lock, press and hold both the **FUNC.** and **TIMER** buttons for more than 3 seconds.
 - Once activated, the lock icon  will remain lit.
- **Wi-Fi Reset**
 - To reset the Wi-Fi network, press and hold both the **MODE** and ▲ buttons for more than 3 seconds.
 - This will allow the unit to reconnect or join a new Wi-Fi network.

Using the Timer Function

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Selecting a Timer Function

- Press the TIMER button to enter the timer function selection menu.
- Use the ▲ / ▼ buttons to cycle through available timer types.
- The selected timer mode will blink on the display.



Available Timer Modes:

- TIMER ON – Automatically powers the system on at a set time.
- TIMER OFF – Automatically powers the system off at a set time.
- WEEK TIMER 1 – Allows up to 8 on/off tasks per week.
- WEEK TIMER 2 – Same as WEEK TIMER 1, with additional options to set operating mode, temperature, and fan speed.

Press the ENTER button to confirm your selection and access the timer setup screen.



TIMER ON/OFF Function Setup

1. After selecting TIMER ON/TIMER OFF, timer zone begins blinking.
2. Use ▲ / ▼ to set the hour, then press ENTER to confirm.
3. Use ▲ / ▼ to set the minutes, then press ENTER again to confirm and exit the timer setup.



Using the Timer Function

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WEEK TIMER 1 Setup

WEEK TIMER 1 allows scheduling up to 8 timed tasks per week.

1. After selecting WEEK TIMER 1, the task icon will blink.
2. Use ▲ / ▼ to select a task (1 to 8). Press ENTER to confirm.
3. Use ▲ / ▼ to choose the day of the week (Sunday to Saturday).
 - Press FUNC. to toggle the timer between ON and OFF status.
 - If the display shows "ON", the date setting is valid. If it shows "OFF", press FUNC. again to retry.
 - Press ENTER to confirm.
4. Use ▲ / ▼ to toggle between Day On and Day Off for that schedule. Press ENTER to confirm.
5. Set the hour with ▲ / ▼, then press ENTER.
6. Set the minute, then press ENTER.
7. Repeat steps 2–6 for additional timer tasks.
8. Press the Power button to exit the timer setup.



NOTES:

- Press BACK to return to the previous menu.
- To clear the entire WEEK TIMER 1 settings, press and hold TIMER for over 2 seconds while on Step 1.
- To clear only the current task's setting, press and hold TIMER during Step 2 for more than 2 seconds.



Using the Timer Function

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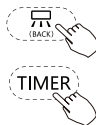
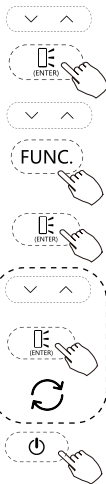
WEEK TIMER 2 Setup

WEEK TIMER 2 adds advanced controls to each timer task, including mode, temperature, and fan speed.

1. After selecting **WEEK TIMER 2**, the task icon will blink.
2. Use ▲ / ▼ to choose a task (1 to 8), then press **ENTER** to confirm.
3. Select the day of the week with ▲ / ▼, then press **FUNC.** to toggle between "ON" and "OFF".
 - If the display shows "ON", the current setting is active.
 - If "OFF", press **FUNC.** again and then **ENTER** to confirm.
4. Choose between Day On and Day Off using ▲ / ▼, then press **ENTER**.
 - If set to Day On, continue to set:
 - Operating Mode: Use ▲ / ▼ to select, then press **ENTER**.
 - Temperature: Use ▲ / ▼ to adjust, then press **ENTER**.
 - Fan Speed: Use ▲ / ▼ to select, then press **ENTER**.
 - If set to Day Off, skip directly to Step 5.
5. Set the hour using ▲ / ▼, then press **ENTER**.
6. Set the minute, then press **ENTER**.
7. Repeat steps 2–6 for other tasks.
8. Press the Power button to exit the timer menu.

NOTES:

- Press **BACK** to return to the previous menu.
- To clear all **WEEK TIMER 2** settings, press and hold **TIMER** for more than 2 seconds at Step 1.
- To clear a specific task, press and hold **TIMER** at Step 2 for more than 2 seconds.



Disposal Guidelines

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This wired controller contains electronic components that may pose environmental hazards if not properly disposed of. Do not discard this device as general household waste or in unsorted municipal waste streams.

When disposing of the controller, please follow these guidelines:

- Dispose of the device at a certified electronic waste collection facility in accordance with local laws and regulations.
- When purchasing a replacement product, some retailers may offer free take-back of the old device.
- The manufacturer or authorized service center may also accept the unit for safe disposal at no additional cost.
- Alternatively, the controller may be delivered to a certified e-waste recycler or scrap electronics dealer.

Improper disposal, such as discarding the controller in forests or natural environments, can be harmful to human health and the ecosystem. Hazardous substances from electronic components may contaminate soil and groundwater.



The design and specifications of this product are subject to change without prior notice as development continues. Consult with the sales agency or manufacturer for details. Refer to the equipment for all other applicable specifications.



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