

**Wired Remote Controller
7 Day Programmable Thermostat
Ductless Systems
KSACN0401AAA
KSACN0501AAA**

OWNER'S MANUAL



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NOTE: 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.

SAFETY CONSIDERATIONS


Installing, starting up, and servicing air-conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.).

Only trained, qualified installers and service mechanics should install, start-up, and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils.

When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.

Follow all safety codes. Wear safety glasses and work gloves. Keep a quenching cloth and fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.

Read these instructions thoroughly and follow all warnings or cautions included in the literature and attached to the unit. Consult the local building codes and National Electrical Code (NEC) for special requirements. Recognize safety information.

This  is the safety-alert symbol. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol. **DANGER** identifies the most serious hazards which will result in severe personal injury or death. **WARNING** signifies hazards which could result in personal injury or death. **CAUTION** is used to identify unsafe practices which may result in minor personal injury or product and property damage. **NOTE** is used to highlight suggestions which will result in enhanced installation, reliability, or operation.



CAUTION

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before beginning any modification or installation of this kit, ensure the main electrical disconnect is in the OFF position. Ensure power is disconnected to the fan coil unit. On some systems both the fan coil and the outdoor unit may be on the same disconnect. Tag the disconnect switch with a suitable warning label. There may be more than one to disconnect.



CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Do not install the wired controller in an area subjected to excessive steam, oil or sulfide gas. Doing so may cause the controller to deform and/or fail.

WIRED CONTROLLER FEATURES AND FUNCTIONS

Features:

- LCD display
- Malfunction code display – displays the error code (helpful for servicing)
- 4–way wire layout design
- Room temperature display
- Weekly schedule

Functions:

- Mode: choose Auto–Cool–Dry–Heat–Fan
- Fan speed: Auto–Low–Med–High
- Swing (on some models)
- Timer ON/OFF
- Temp setting
- Weekly Schedule
- FOLLOW ME
- Child Lock
- LCD Display
- Clock

WIRED CONTROLLER DISPLAY

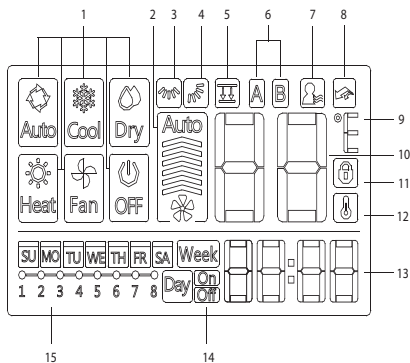


Fig. 1 — Wired Controller Display

1. Operation mode indicator
2. Fan speed indicator
3. Left–right swing indicator
4. Up–down swing indicator
5. Not Available
6. Not Available
7. FOLLOW ME function indicator
8. Turbo/Auxiliary Heat function indicator
9. °C / °F indicator
10. Temperature display
11. Lock indicator
12. Room temperature indicator
13. Clock display
14. On/Off timer
15. Timer display

WIRED CONTROLLER DISPLAY

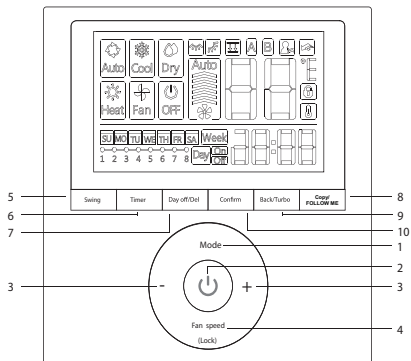


Fig. 2 – Wired Controller Buttons

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

PREPARATORY OPERATION

SET THE CURRENT DAY AND TIME

- Press **TIMER** for 3 seconds or more. The timer displays flashes.

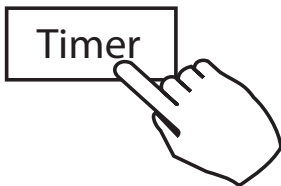


Fig. 3 – Timer

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

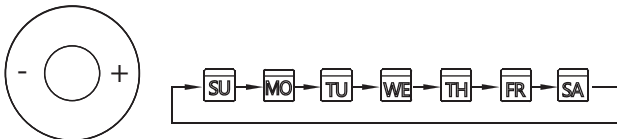


Fig. 4 – Day

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

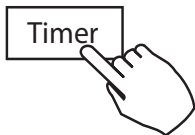
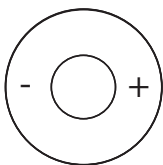


Fig. 5 – Timer

- 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.



ex.Monday AM 11:20

Fig. 6 – Time

- The setting is complete after pressing **TIMER** or if no button is pressed for 10 seconds.

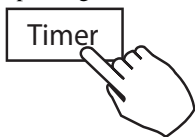


Fig. 7 – Timer

OPERATION

To start/stop operation



Fig. 8 – Power Button

To set the operation mode

Operation mode setting

- Press **MODE** to set the operation mode.

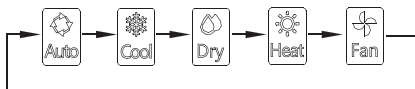
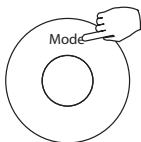


Fig. 9 – Operation Mode

- Press + or – to set the room temperature. Indoor Setting Temperature Range: 62~86°F(17~30°C)/62~88°F (17~31°C (depending on models)).

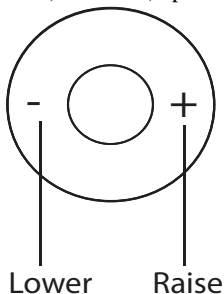


Fig. 10 – + or –

- Press **FAN SPEED** to set the fan speed (see Fig. 11).

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

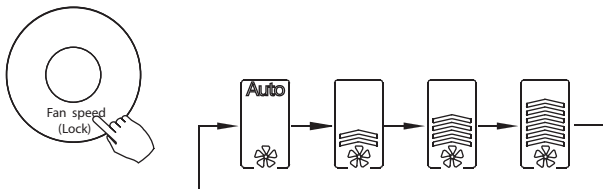


Fig. 11 – Fan Speed

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

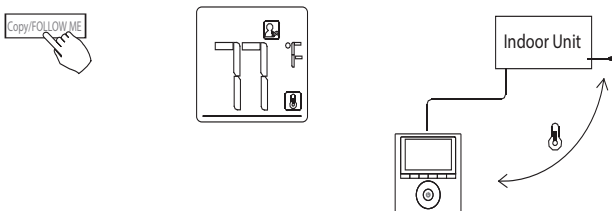


Fig. 12 – FOLLOW ME

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

- 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.

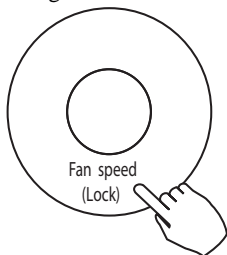


Fig. 13 – LOCK

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

- 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.

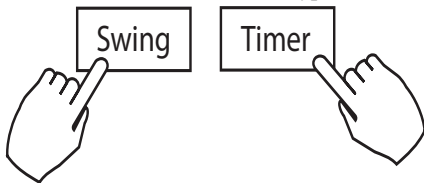


Fig. 14 – Keypad Tone Setting

NOTE: This function is only available for KSACN0501AAA (Ducted/Cassette Models).

- Press **BACK** and **COPY** simultaneously for 3 seconds to alternate the temperature display between the °F and °C scale.

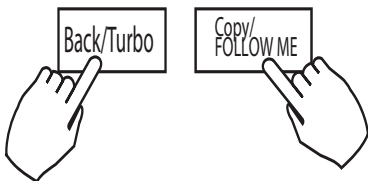


Fig. 15 – °F & °C Temperature Selection

- Press **TURBO** to activate/deactivate the Turbo/Auxiliary Heat 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** in the **COOL** mode, the unit sets to the highest fan speed setting to jump-start the cooling process.
- When the user presses **TURBO** in the **HEAT** mode, for units with **AUX. HEAT**, the **AUX. HEAT** activates and jump-starts the heating process.

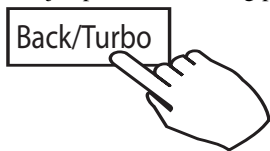


Fig. 16 – Turbo/Auxiliary Heat function (on some models)

- Press **SWING** to start the **UP-DOWN SWING** function. Press **SWING** again to stop.

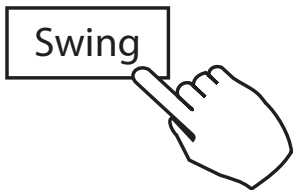


Fig. 17 – Swing

NOTE: Press **SWING** for 5 seconds to activate the **LEFT-RIGHT SWING** function. This function is not available on the indoor units.

Use **SWING** to adjust the up and down airflow direction.

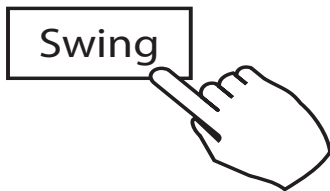






Fig. 18 – Swing

- Every time the user presses **SWING**, the louver swings six degrees.
- Press and hold **SWING** for 2 seconds, it changes to the **UP-DOWN SWING** mode. Press **SWING** again to stop.

TIMER FUNCTIONS

- **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 Daily ON, OFF and ON/OFF TIMER

1. Press **TIMER** to select the **DAY ON** or **DAY OFF**.

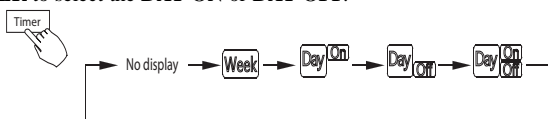


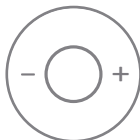
Fig. 19 – Timer

2. Press **CONFIRM** and the clock display flashes.



Fig. 20 – Confirm

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



ex. Off timer set at PM 6:00

Fig. 21 – + or –

4. Press **CONFIRM** again to complete the settings.



Fig. 22 – Confirm

To set the Daily ON, OFF and ON/OFF TIMER

1. Press **TIMER** to select the **DAY ON** or **DAY OFF**.

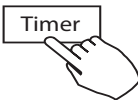


Fig. 23 – Timer

2. Press **CONFIRM** and the clock display flashes.



Fig. 24 – Confirm

3. Press the button + or – to set the **ON TIMER** and then press **CONFIRM**.

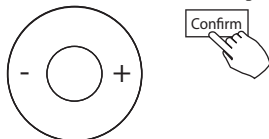


Fig. 25 – + or –

4. Press + or – to set the **OFF TIMER**.

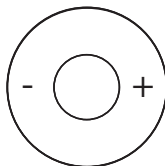


Fig. 26 – + or –

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



Fig. 27 – Confirm

WEEKLY TIMER

1. Press **TIMER** to select the week and press **CONFIRM**.



Fig. 28 — Weekly timer setting

2. Press + or - to select the day of the week and then press **CONFIRM**.

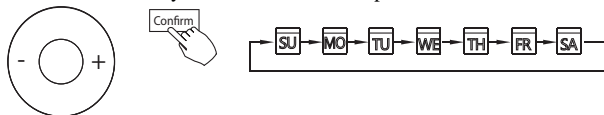


Fig. 29 — Day of the week setting

3. Press + and - 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.

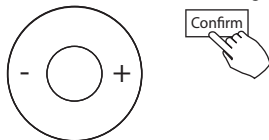
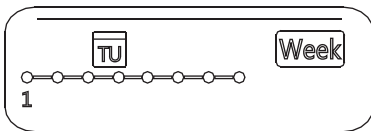


Fig. 30 — ON timer setting for Timer setting 1

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



ex. Tuesday scheduled event

Fig. 31 — Tuesday scheduled events 1

4. Press + and – to set the time then press **CONFIRM**.



Fig. 32 – Time Setting

5. Press + and – to set the operation mode then press **CONFIRM**.

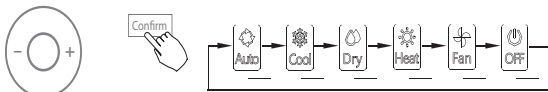


Fig. 33 – Operation Mode Setting

6. Press + and – to set the room temperature then press **CONFIRM**.



Fig. 34 – Room Temperature Setting

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

7. Press + and – to set the fan speed then press **CONFIRM**.

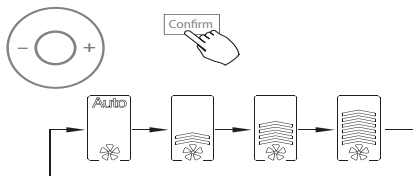


Fig. 35 – Fan Speed Setting

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

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

Weekly Timer Operation

1. Press **TIMER** to select the week, and then the timer starts automatically.

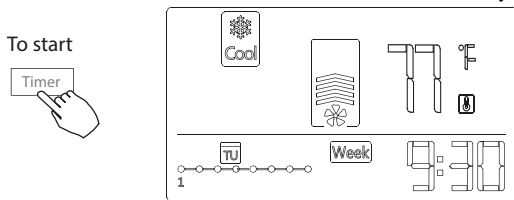


Fig. 36 – Weekly Timer Operation

2. Press **POWER** to cancel the timer mode. The timer mode can also be canceled by changing the timer mode using **TIMER**.



Fig. 37 – Power and Timer

To set the DAY OFF (for a holiday)

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

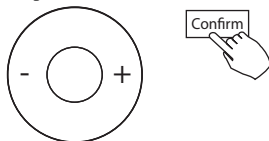


Fig. 38 – Confirm

2. Press + or – to select the day of the week.

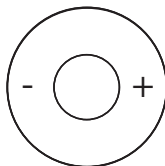


Fig. 39 – + or –

3. Press **DAY OFF** to create an off day.



ex.The DAY OFF is set for Wednesday

Fig. 40 – DAY OFF

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

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



Fig. 41 – Back/Turbo

To cancel, follow the same procedures used for setup.

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

Copy the setting from one day to another 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**.



Fig. 42 – Confirm

2. Press + or – to select the day to copy from.

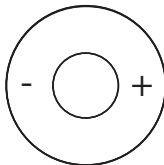


Fig. 43 – + or –

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



Fig. 44 – COPY

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

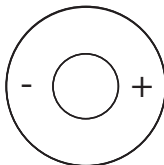


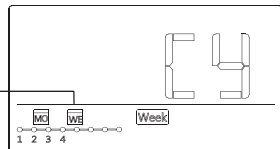
Fig. 45 – + or –

5. Press **COPY** to confirm.



Press the Copy button to confirm .

The "WE" mark flashes quickly



ex. Copy the setting of Monday to Wednesday

Fig. 46 – Copy

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

7. Press **CONFIRM** to confirm the settings.



Fig. 47 – Confirm

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



Fig. 48 – Back/Turbo

Delete the scheduled events in one day

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



Fig. 49 – Confirm

2. Press + and – to select the day of the week and then press **CONFIRM**.

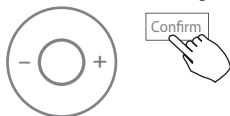
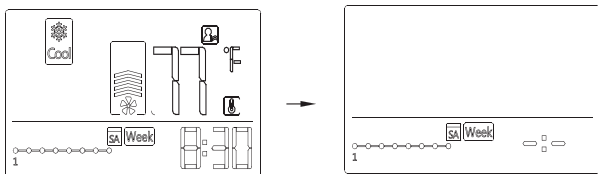


Fig. 50 – + and –

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 scheduled event 1 for Saturday

Fig. 51 – + and –

FAULT ALARM HANDLING

If the system does not properly operate except in the aforementioned cases or the aforementioned malfunctions are evident, investigate the system according to the following procedures.

Table 1—Fault Alarm

No.	MALFUNCTION AND PROTECTION DEFINITION	DISPLAY DIGITAL TUBE
1	Communication error between wired controller and indoor unit	F0
2	The faceplate is abnormal	F1

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

TECHNICAL INDICATION AND REQUIREMENT

EMC and EMI comply with the CE certification requirements.

