

# Mini / Multi-Split Programmable Controller

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MS-SVX045B-EN

## Safety Precautions

Warnings, Cautions and Notices: Warnings, cautions and notices appear at appropriate intervals throughout this manual. Warnings are provided to alert installing contractors to potential hazards that could result in serious injury or death. Cautions are designed to alert personnel to conditions that could result in minor to moderate injury. Notices alert to the possibility of equipment and/or property damage.

Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

<b>WARNING</b>	This mark indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
<b>CAUTION</b>	This mark indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.
<b>NOTICE</b>	This mark indicates a situation which could result in equipment and/or property damage.

 <b>CAUTION</b>
Do not install or remove the wired controller by yourself. If necessary, please contact your installing/servicing dealer.
<b>NOTICE</b>
1. Do not install the wired controller in a damp place or in direct sunlight.
2. Do not beat, toss or frequently assemble/disassemble the wired controller
3. Do not operate the wired controller with wet hands and do not let any liquid spill or drip into it.

### NOTE:

- This wired controller is applicable to various models. Some specific functions are unavailable for the mini/multi split units and will not be covered in this manual.
- Before operating the unit, please read this manual carefully and keep it for future reference.

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## 1 Display

### 1.1 Appearance and LCD Icons



Fig. 1 Appearance of the programmable controller

## 1.2 Instructions for Display Symbols

No.	Symbols	Instructions
1		Up and down louver function
2		Left and right louver function
3		Outdoor air function (not available on these units)
4		Sleep function
5		Auto mode
6		Cooling mode
7		Dry mode
8		Fan mode
9		Heating mode
10		Health function (not available on these units)
11		I-Demand function (The unit is restricted to 75% capacity for an ideal balance of comfort and cost savings)
12		Holiday (Vacation) function (The temperature is maintained at 8°F (46°C) to keep pipes from freezing and keep pets comfortable)
13		Shield function (Buttons, temperature, ON/OFF, mode or energy saving is shielded by remote monitor) (not available on these units)
14		Fan speed
15		Memory function (The unit will resume the original set state after power recovery)
16		DRED function (does not apply for North America Models)
17		Energy Save function (not available on these units)
18		Dry function
19		Clean filter reminder (not available on these units)
20		Timer status
21		Key card control / motion-activated operation (not available on these units)
22		Quiet function (not available on these units)
23		Lock function

## 2 Buttons

### 2.1 Button Graphics

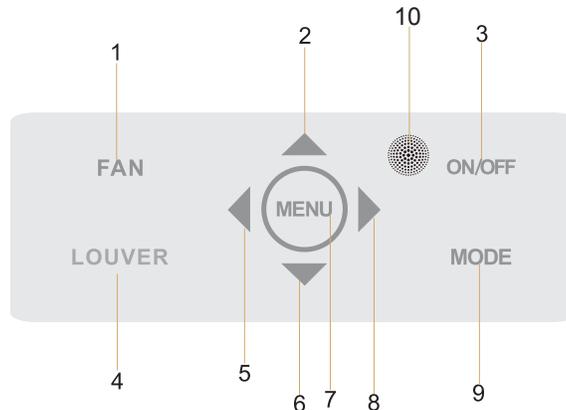


Fig. 2 Button Graphics

### 2.2 Function Identification and Instructions

No.	Button Name	Button Function
1	Fan	Set low, medium, high, turbo and auto fan speeds
2	▲	1. Set temperature 2. Set parameter
6	▼	3. Move option cursor
3	ON/OFF (BACK)	1. Turn on or turn off unit 2. Return to last screen
4	LOUVER	Set up & down louver swing and set left & right louver swing (position of the indoor unit louvers)
5	◀	1. Set related function on or off 2. Move option cursor
8	▶	3. Set parameter
7	MENU (ENTER)	1. Enter menu screen 2. Confirm setting
9	MODE	Set auto, cooling, dry, fan and heating modes for indoor unit
10	Remote Control Receiver Window	Infrared receiver for processing signals from the hand held remote

## 3 Operation Instructions

### 3.1 Menu Structure

Normal settings of the wired controller can be set directly on the main menu, including fan speed, louver settings, set temperature, mode, and ON/OFF. The settings and status view of other functions can be set in the corresponding sub-menu. A detailed menu structure is as shown in Fig. 3.

# Mini / Multi-Split Programmable Controller

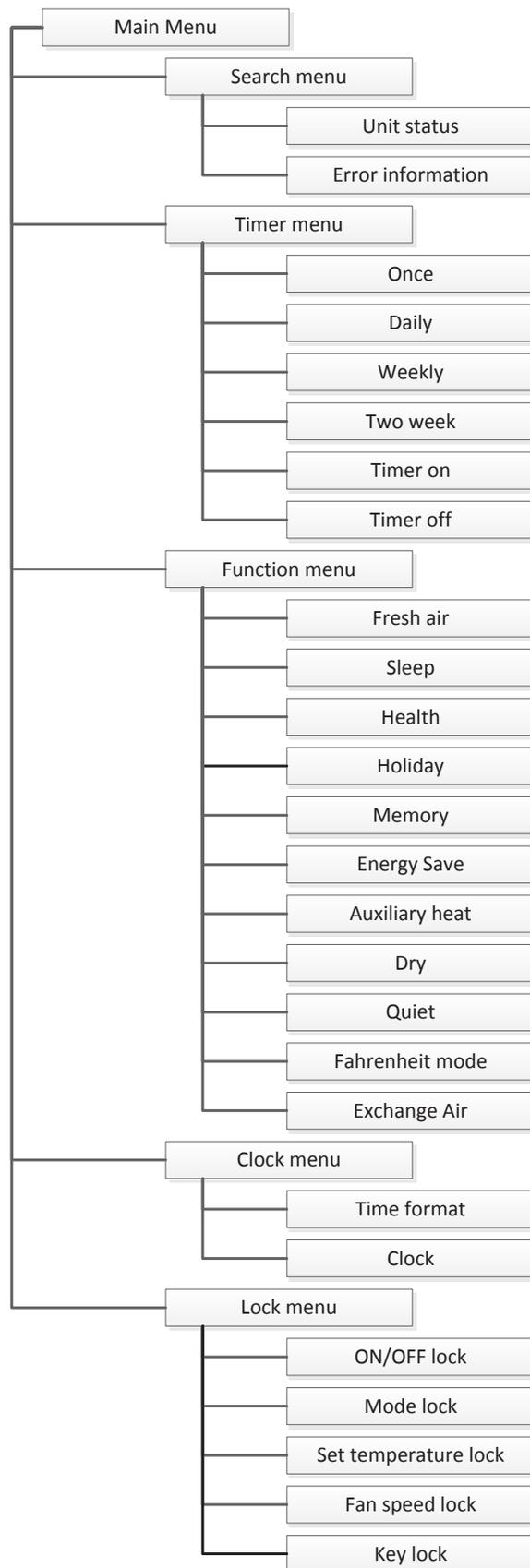


Fig. 3 Menu Structure

# Mini / Multi-Split Programmable Controller

## 3.2 Function Availability by Model

Compatible Programmable Controller Inputs									
Indoor Type	High Wall	Floor/Ceiling (Multi)							
Model	4MXW85**A10N	4MXW8536A10N	4MXW27**A10N	4MXW16**A10N	4MYW16**A10N	4MXC85**A10N	4MXD85**A10N	4MXD85**A10N	4MXD85**A10N
Capacities	9, 12, 18, 24	36	9, 12, 18, 24	9, 12, 18, 24	9, 12, 18, 24	12, 18, 24	9, 12, 18, 21, 24	9, 12, 18, 24	9, 12, 18, 24
<b>Main Display</b>									
Modes	Auto, Cool, Dry, Fan, Heat								
Temperature	X	X	X	X	X	X	X	X	X
Fan Speeds	Low, Med, High, Turbo, Auto								
Louwer: Up & Down	X	X	X	X	X	X	X	X	X
<b>Search Menu</b>									
Unit Status	X	-	X	-	-	-	-	-	-
Error Information	X	X	X	X	X	X	X	X	X
<b>Timer Menu (Scheduling)</b>									
Once	X	X	X	X	X	X	X	X	X
Daily Schedule	X	X	X	X	X	X	X	X	X
Weekly Schedule	X	X	X	X	X	X	X	X	X
Two Week Schedule	X	X	X	X	X	X	X	X	X
Timer On	X	X	X	X	X	X	X	X	X
Timer Off	X	X	X	X	X	X	X	X	X
<b>Function Menu</b>									
Fresh Air	-	-	-	-	-	-	-	-	-
Sleep (Mode 2)	X	X	X	X	X	X	X	X	X
Health	-	-	-	-	-	-	-	-	-
Holiday	X	X	X	X	X	X	X	X	X
Memory	X	X	X	X	X	X	X	X	X
Energy Save	-	-	-	-	-	-	-	-	-
Auxiliary Heat	-	-	-	-	-	-	-	-	-
Dry (X-Fan)	X	X	X	X	X	X	X	X	X
Quiet	-	-	-	-	-	-	-	-	-
Fahrenheit Mode	X	X	X	X	X	X	X	X	X
Exchange Air	-	-	-	-	-	-	-	-	-
<b>Clock Menu</b>									
Time Format	X	X	X	X	X	X	X	X	X
Clock	X	X	X	X	X	X	X	X	X
<b>Lock Menu</b>									
On/Off Lock	X	X	X	X	X	X	X	X	X
Mode Lock	X	X	X	X	X	X	X	X	X
Set Temperature Lock	X	X	X	X	X	X	X	X	X
Fan Speed Lock	X	X	X	X	X	X	X	X	X
Key Lock	X	X	X	X	X	X	X	X	X

## 3.3 On/Off

When the wired control is on the main screen, press the ON/OFF button to turn on the unit. Press the ON/OFF button again to turn off the unit. The displays in both ON and OFF states are shown in Fig. 4 and Fig. 5.



Fig. 4 Unit OFF display

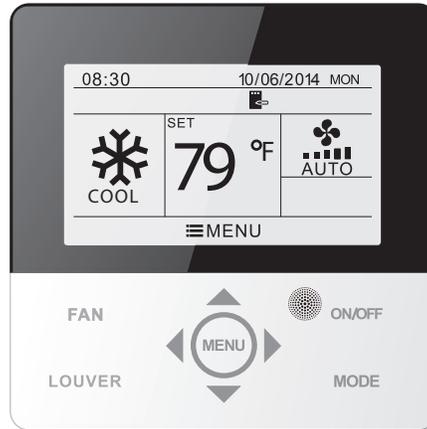
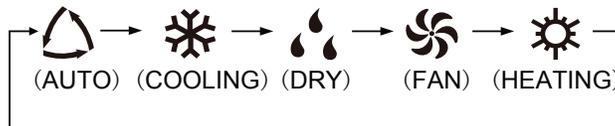


Fig. 5 Unit ON display

## 3.4 Mode Setting

When the unit is on, pressing the MODE button will cycle through the operating modes as shown below:



Note: If the energy SAVE function is set to be on, AUTO mode will not be available. (The energy-save function is not available on current units.)

## 3.5 Temperature Setting

When the unit is on, pressing the “▲” or “▼” button on the main page increases or decreases the set temperature by 1°F(1°C); holding the “◀” or “▶” button increases or decreases the set temperature by 1°F(1°C) every 0.3 seconds. In cooling, dry, fan and heating mode, temperature setting range is 61°-86°F (16°-30°C). In AUTO mode, the set temperature cannot be adjusted.

## 3.6 Fan Setting

When the unit is on, pressing the FAN button will cycle through the fan speeds as shown below:

Low→Medium→High→Turbo→Auto→Low

Symbols displayed are as shown in Fig. 6.



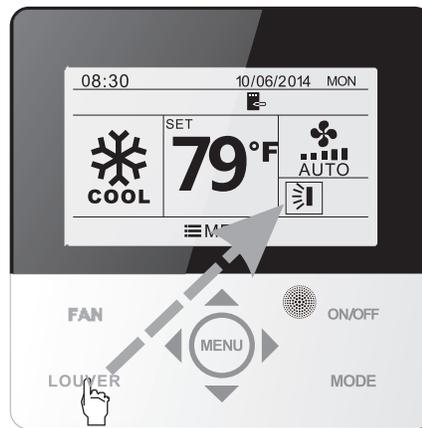
Fig. 6 Fan Setting

## 3.7 Louver (Swing Angle) Setting

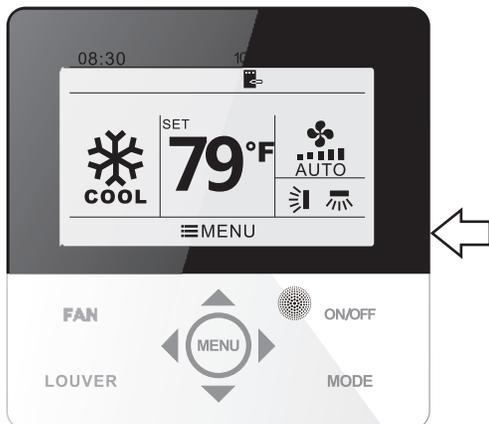
By pressing the LOUVER button when the unit is on, the up & down louver icon  is displayed. Press the LOUVER button to turn on or turn off the up & down louver function. The icon  is displayed when the up & down louver function is on and is not displayed when the up & down louver function is off.



Press the LOUVER button to enter the louver setting function



Press the LOUVER button to turn on or off the simple up & down louver action and the fixed-angle up & down louver action function



After the settings are complete, the menu will automatically exit after 5 seconds

Fig. 7 Louver Setting

## 3.8 Function Menu

Press the MENU (enter) button on main screen to enter the main menu. Press the “◀” or “▶” or “▼” or “▲” buttons to select the function setting screen. Press the MENU (enter) button to enter the user function setting screen. Press the “▼” or “▲” button to select the specific function item. Press the “◀” or “▶” button to turn on or turn off this function. If the function item is unavailable in the current mode of operation, it will display as gray on the screen. Please refer to Fig. 8.

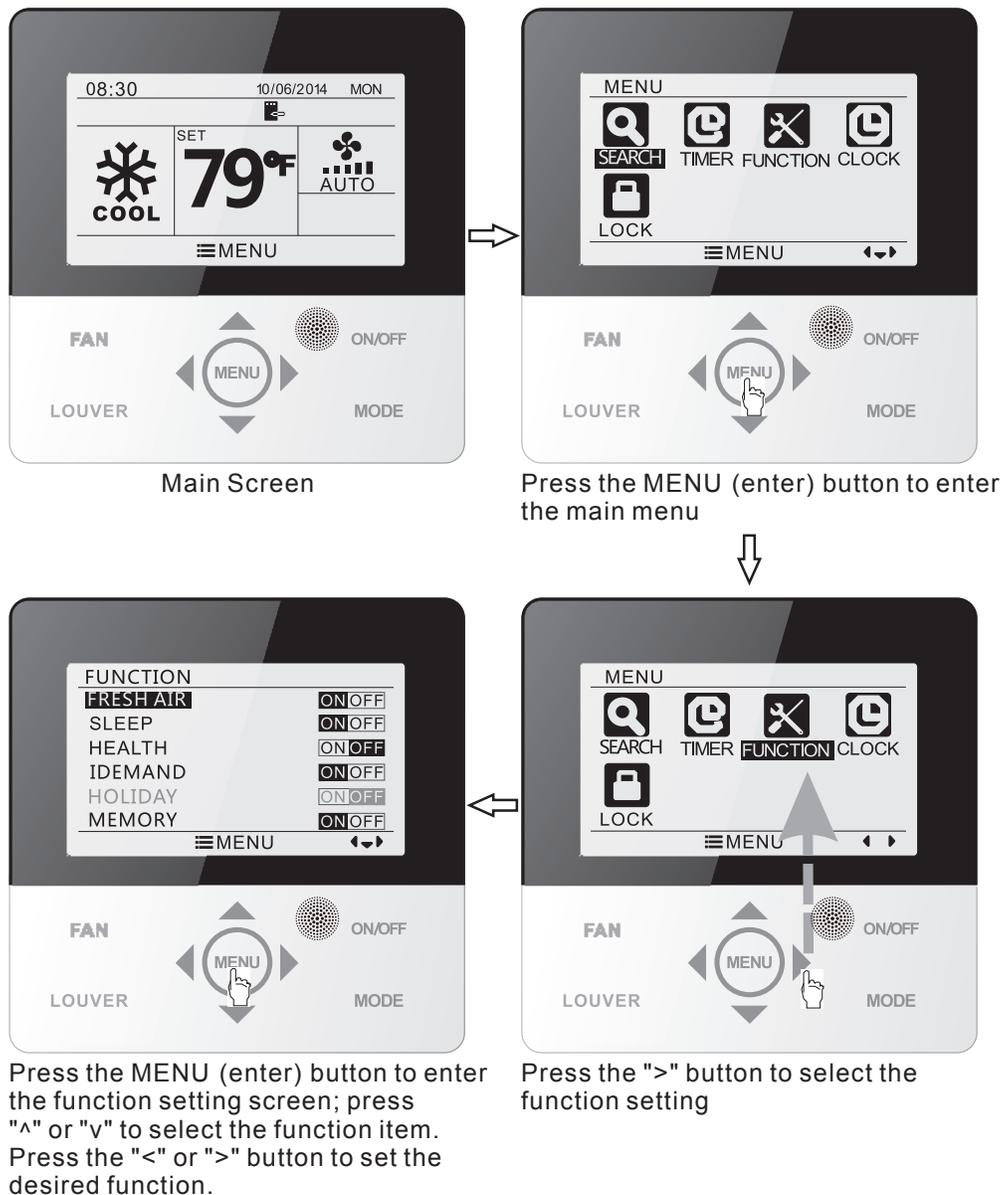


Fig. 8 Functions Setting

### 3.8.1 Fresh Air

This function is currently unavailable.

### 3.8.2 Sleep

After entering the user function screen, press the “▲” or “▼” button to select the SLEEP function and press the “◀” or “▶” button to turn on or turn off the SLEEP function. The selected setting will save automatically.

If this function is turned on, the unit will operate according to the preset sleep curve to provide a comfortable sleep environment.

Note:

- In FAN or AUTO mode, the SLEEP function is not available.
- The sleep function will be canceled when the unit is turned off or when the modes are changed.

### 3.8.3 Health

This function is currently unavailable.

### 3.8.4 I-Demand

After entering the user function screen, press the “▲” or “▼” button to select the I-DEMAND function and press the “◀” or “▶” button to turn on or turn off this function. The selected setting will save automatically.

Note:

- This function is only available in COOLING mode.
- When this function has been set, the set temperature is displayed as 27°C(81°F).
- The temperature and fan speed settings are not selectable when the I-DEMAND function is activated.
- The I-DEMAND function will be canceled when the unit is turned off or when the modes are changed
- The I-DEMAND function and SLEEP function cannot be selected simultaneously.

### 3.8.5 Holiday (Vacation)

After entering the user function screen, press the “▲” or “▼” button to select the Holiday (vacation) function and press the “◀” or “▶” button to turn on or turn off this function. The selected setting will save automatically.

Note:

- This function is only available in HEATING mode.
- When this function has been set, set temperature is displayed as 8°C( 46°F) . The temperature and fan speed settings are unavailable when the HOLIDAY (vacation) function is activated.
- This function will be canceled when switching modes.
- The HOLIDAY (vacation) function and SLEEP function cannot be used simultaneously.

### 3.8.6 Memory

After entering the user function menu, press the “▲” or “▼” button to select the MEMORY function and press the “◀” or “▶” button to turn on or turn off the MEMORY function. The selected setting will save automatically. When the MEMORY function is activated, the unit will retain its previous settings after a power failure. It is recommended to keep the MEMORY function on.

### 3.8.7 Fixed Angle Louver (Swing Angle)

This function is currently unavailable and will be canceled automatically after setting.

### 3.8.8 Energy Save

This function is currently unavailable and will be canceled automatically after setting.

### 3.8.9 Auxiliary Heat

This function is currently unavailable

### 3.8.10 Dry (X-Fan) Function

After entering the Function menu press the “▲” or “▼” button to select the DRY function option and press the “◀” or “▶” button to turn on or turn off this function. The selected setting will save automatically.

Note:

- This function is only available in COOLING mode and DRY mode.
- When this function is on, and the air conditioner is turned off, the indoor fan will continue to operate at low speed for a set time to dry any condensation from the indoor unit.

### 3.8.11 Quiet

This function is currently unavailable.

### 3.8.12 Fahrenheit Mode

After entering the Function menu, press the “▲” or “▼” button to select the FAHRENHEIT mode setting. Press the “◀” or “▶” button to turn on or turn off this function. The selected setting will save automatically. After closing this function, the correct temperature will be displayed. When FAHRENHEIT mode is turned off, the temperature will be displayed in Celsius.

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## 3.8.13 Exchange Air

This function is currently unavailable.

## 3.9 Unit Status

Press the MENU button to enter the main menu and select the SEARCH symbol to enter the Search menu. Then press the MENU button to enter the view function screen. Press the “▲” or “▼” button to select the status view function. Press the MENU button to enter the unit status view screen. Press the ON/OFF (back) button to return to the last screen. Please refer to Fig. 9.

The following statuses can be viewed: auxiliary heat operation,, indoor ambient temperature and outdoor ambient temperature.

Note: If the unit does not support outdoor ambient temperature readings the outdoor temperature will be shown as -22°F.

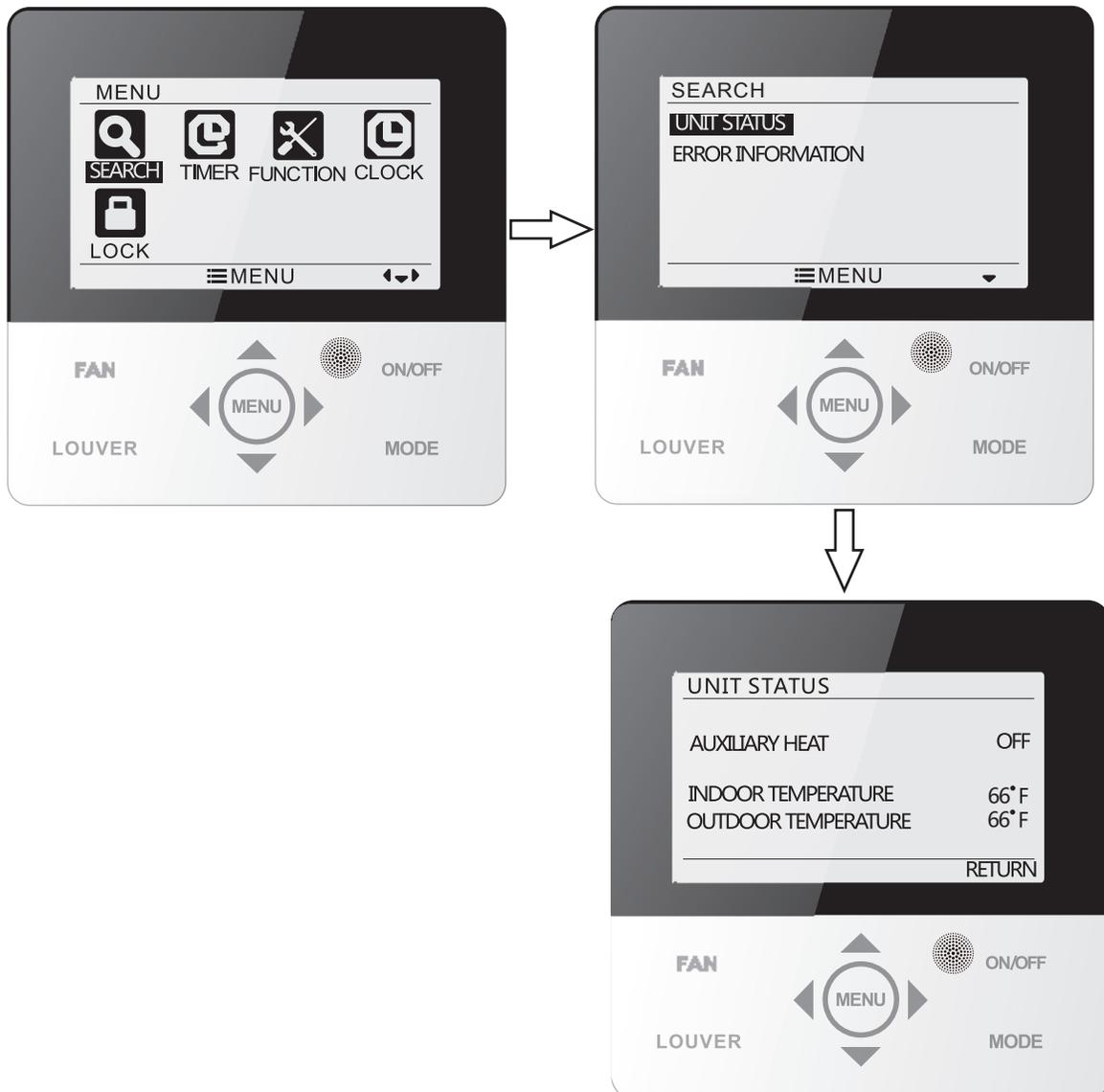


Fig. 9 Unit Status View

### 3.10 System Error View

When an error occurs in the unit, the error symbol will be displayed on the main screen of the wired controller to indicate there is a unit malfunction. When this occurs, you can enter the error view screen to determine the cause of the current error.

Press the MENU button to enter the main menu and select the function symbol to be viewed. Then press the MENU button to enter the view function screen. Press the “▲” or “▼” button to select the error information. Press the MENU button to enter the error view screen. If there are multiple errors, press the “▲” or “▼” to scroll through the error screens. Press the ON/OFF (back) button to return to the last screen. Please refer to Fig. 10.

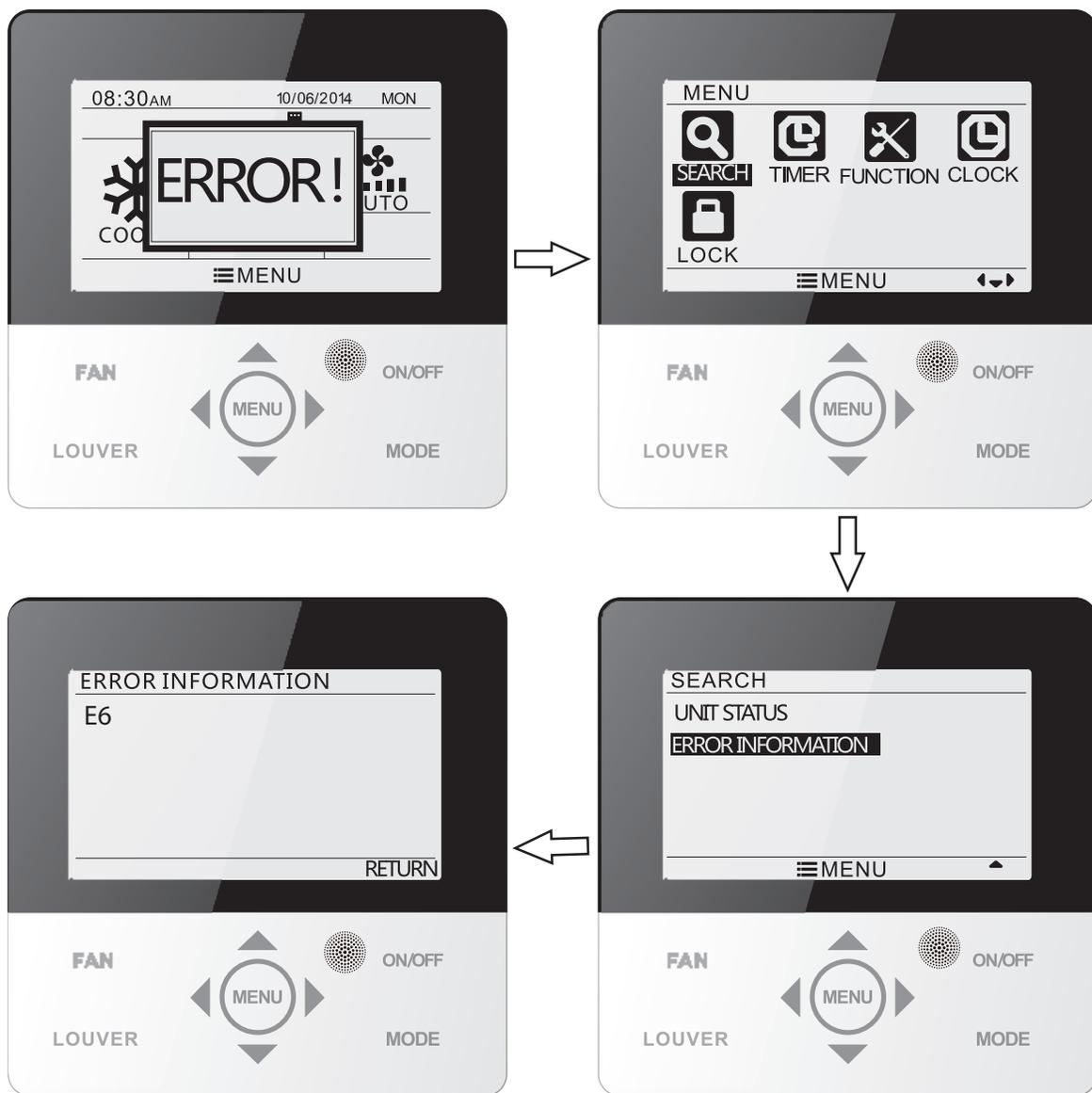


Fig. 10 System Error View

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Error	Error Code	Error	Error Code
Return air temperature sensor open/short circuited	F1	Drive board communication error	P6
Evaporator temperature sensor open/short circuited	F2	Compressor overheating protection	H3
Indoor unit liquid valve temperature sensor open/short circuited	b5	Indoor and outdoor units unmatched	LP
Indoor gas valve temperature sensor open/short circuited	b7	Communication line misconnected or expansion valve error	dn
IPM temperature sensor open/short circuited	P7	Operating mode conflict	E7
Outdoor ambient temperature sensor open/short circuited	F3	Pump-down	Fo
Outdoor unit condenser mid-tube temperature sensor open/short circuited	F4	Jumper error	C5
Discharge temperature sensor open/short circuited	F5	Forced defrosting	H1
Indoor and outdoor communication error	E6	Compressor startup failure	Lc
DC bus under-voltage protection	PL	High discharge temperature protection	E4
DC bus over-voltage protection	PH	Overload protection	E8
Compressor phase current sensing circuit error	U1	Whole unit over-current protection	E5
Compressor demagnetization protection	HE	Over phase current protection	P5
PFC protection	Hc	Compressor desynchronizing	H7
IPM Temperature Protection	P8	IPM Current protection	H5
Over-power protection	L9	Compressor phase loss/reversal protection	Ld
System charge shortage or blockage protection	F0	Frequency restricted/reduced with whole unit current protection	F8
Capacitor charging error	PU	Frequency restricted/reduced with IPM current protection	En
High pressure protection	E1	Frequency restricted/reduced with high discharge temperature	F9
Low pressure protection	E3	Frequency restricted/reduced with anti-freezing protection	FH
Compressor stalling	LE	Frequency restricted/reduced with overload protection	F6
Over-speeding	LF	Frequency restricted/reduced with IPM temperature protection	EU
Drive board temperature sensor error	PF	Indoor unit full water error	E9
AC contactor protection	P9	Anti-freezing protection	E2
Temperature drift protection	PE	AC input voltage abnormal	PP
Sensor connection protection	Pd	Whole unit current sensing circuit error	U5
DC bus voltage drop error	U3	4-way valve reversing error	U7
Outdoor fan 1 error protection	L3	Motor stalling	H6
Outdoor fan 2 error protection	LA	PG motor zero-crossing protection	U8

## 3.11 Timer Menu

The wired controller can set 6 types of timers: one-time clock timer, everyday schedule, one week schedule, two week schedule, countdown timer on and countdown timer off. Select the timer symbol after entering the main menu. Press the MENU button to enter the timer menu. Press the “▲” or “▼” button to select the desired type of timer. Press the “◀” or “▶” button to turn on or turn off the selected timer or schedule. Please refer to Fig. 11.

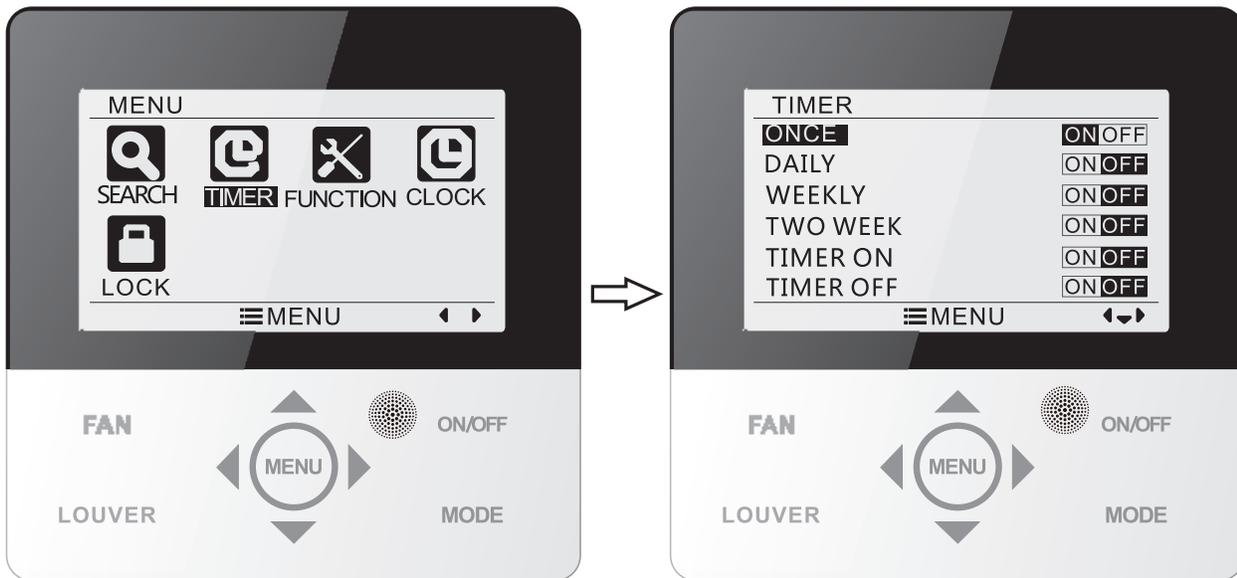


Fig. 11 Timer Menu Options

### 3.11.1 Once Clock Timer

The wired controller can set a “once” or one-time clock timer. If the unit is off, a timer to turn ON can be set. If the unit is on, a timer to turn OFF can be set. This timer is for one-time use and once the time parameter is reached, the timer will automatically be turned off.

On the timer menu, when the ONCE timer is selected, press the “◀” or “▶” button to turn on or turn off this timer function. Press the MENU button to enter the timer time setting screen, as shown in Fig. 12.

Press the “◀” or “▶” button to select the timer hour or minute and press the “▲” or “▼” button to adjust the time. Holding “▲” or “▼” button increases or decreases time rapidly. Once the desired time is set, press the MENU button to save the timer setting.



Fig. 12 ONCE clock timer

Note: The ONCE timer function will be automatically canceled if the unit is manually turned on or off.

### 3.11.2 Daily Schedule

With the DAILY schedule, eight individual time segments can be set per day. Each individual segment will be valid only when that segment is turned on. In each segment, you can set time, unit ON/OFF, set temperature in cooling (valid only in cooling mode), set temperature in heating (valid only when in heating mode). Please refer to Fig. 13. After entering the DAILY scheduling screen, press the “◀” or “▶” button to select the desired function to be set. Press the “▲” or “▼” button to adjust the value. Press the MENU button to save the setting.

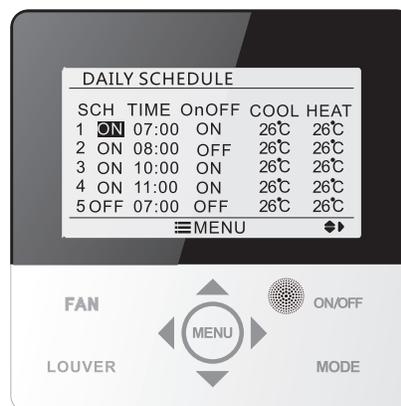


Fig. 13 DAILY Timer Setting

### 3.11.3 Weekly Schedule

With the WEEKLY schedule, a schedule may be set for a full week. Within each day, up to eight individual time segments can be set. The unit will execute that schedule over the course of the week.

After entering the weekly schedule setting screen, press the “◀” or “▶” button to select the day to be set. Press the MENU button to enter the desired time ranges for that day. Press the “◀” or “▶” button to select the item to be set. Press “▲” or “▼” button to adjust the values. Press the MENU button to save the desired setting. Please refer to Fig. 14.

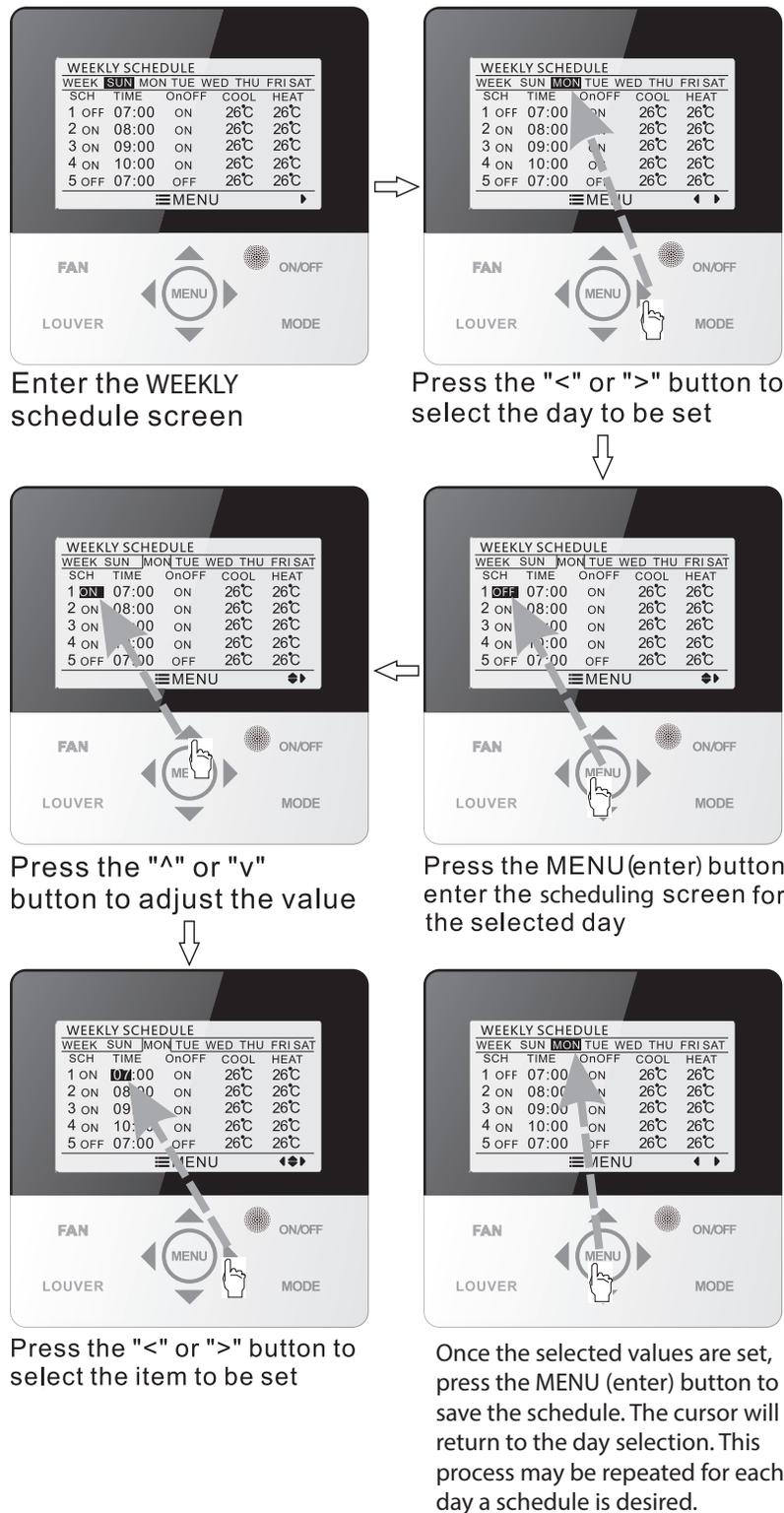


Fig. 14 WEEKLY Timer Setting

## 3.11.4 Two Week Schedule

Using the TWO WEEK schedule, daily schedules may be programmed for up to two weeks. Within each day up to eight individual time segments can be set. The unit will execute corresponding timer settings over the course of the two week period.

On the timer function setting screen, press the “▲” or “▼” button to select the two week timer setting. Press the MENU button to enter the two week timer menu screen. Press the “▲” or “▼” button to select the current week option. Press the “◀” or “▶” button to set the current week as first week or second week. Press the MENU button to save current week setting. Please refer to Fig. 15.

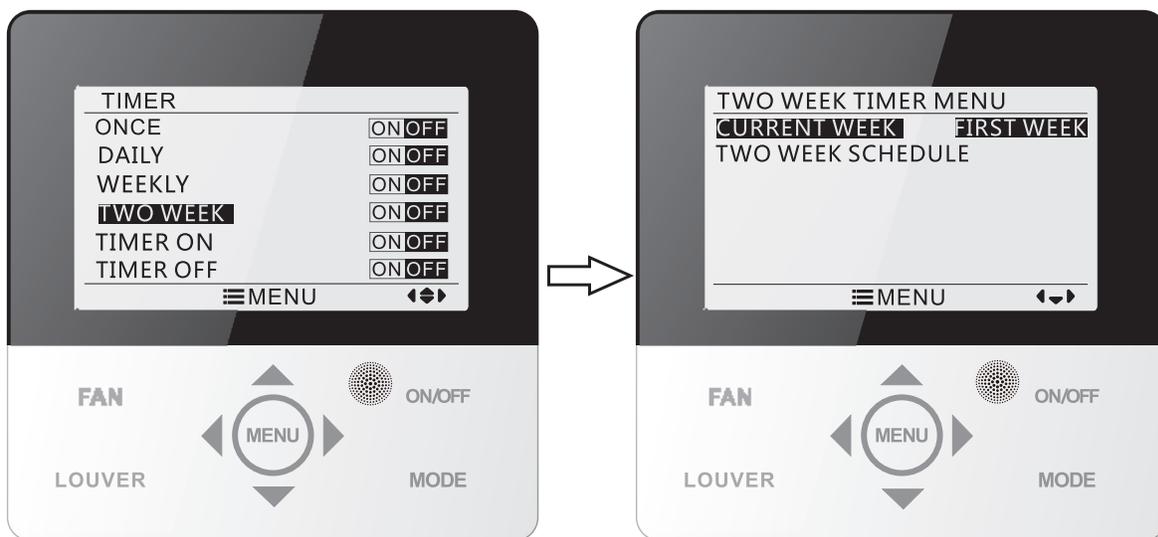


Fig. 15 Setting the current week

After entering the TWO WEEK timer menu screen, press the “▲” or “▼” button to select the TWO WEEK schedule option. Press the MENU (enter) button to enter the TWO WEEK timer schedule. After entering the TWO WEEK timer setting screen, press the “◀” or “▶” button to select the day to be set. Press the MENU button to enter timer programming of that day. Press the “◀” or “▶” button to select the item to be set. Press the “▲” or “▼” button to adjust the content. Press the MENU button to save the setting. Press the BACK button to exit this screen. To view the setting symbols please refer to the weekly timer setting section.

## 3.11.5 Timer On and Timer Off

TIMER ON and TIMER OFF are one-time countdown timers. When the system is on, TIMER OFF can be set or both TIMER OFF and TIMER ON can be set concurrently. When the system is off, TIMER ON can be set, or both TIMER ON and TIMER OFF can be set concurrently. For example, if TIMER OFF is set for two hours and TIMER ON is set for four hours simultaneously while the unit is on, the unit will turn off in two

hours and the unit will turn back on four hours after the TIMER OFF function completes. After entering the TIMER ON setting screen, press the “▲” or “▼” button to increase or decrease the timer time in 0.5 hour increments. Press the ON/OFF (back) button to return to the last screen. Please refer to Fig. 16.



Fig. 16 Countdown timer on

After entering the TIMER ON setting screen, press the “▲” or “▼” button to increase or decrease the timer time in 0.5 hour increments. Press the ON/OFF (back) button to return to the last screen. Please refer to Fig. 17.



Fig. 17 Countdown timer off

If the timer function is on, the set hours will decrease as the unit operation time increases. In this case, the residual hours can be viewed after entering the time setting screen.

Note: The countdown timer function is a single-use function and will automatically cancel once the time parameters have been fulfilled.

## 3.12 Clock Menu

### 3.12.1 Clock Format Setting

The clock format can be set to a 12-hour clock or a 24-hour clock display. Select the clock symbol on the menu screen, then press the MENU button to enter the clock menu. Press the “▲” or “▼” button to select the CLOCK FORMAT then press the “◀” or “▶” button to select 12-hour format or 24-hour format. Please refer to Fig. 18.

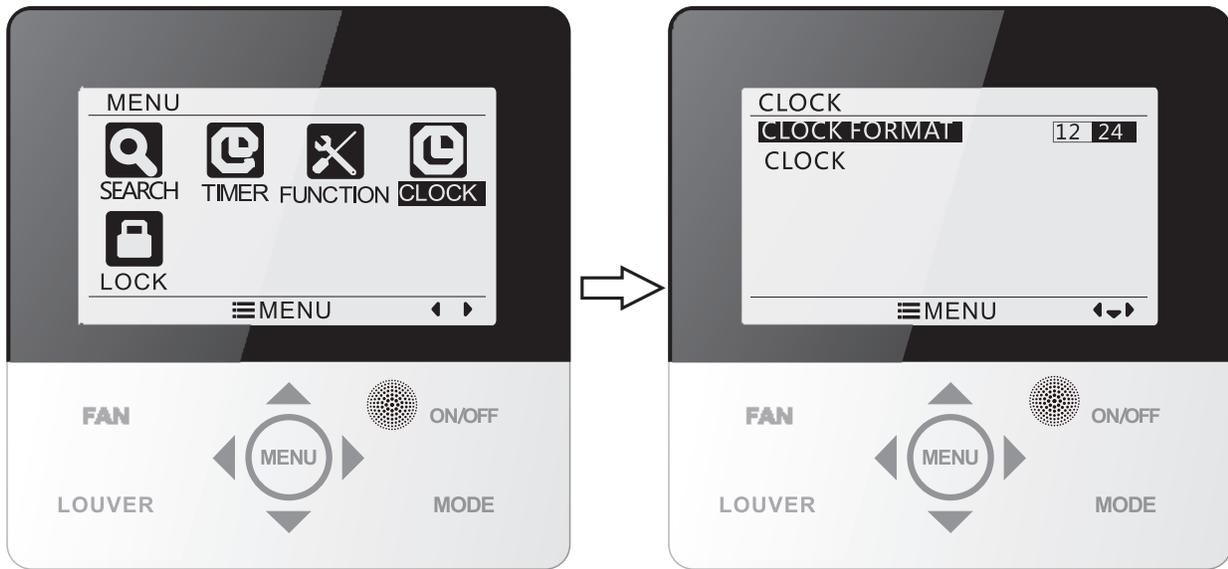


Fig. 18 Clock Format Setting

### 3.12.1 Clock Setting

Select the clock symbol on the menu screen, then press the MENU button to enter the clock setting screen. Press the “▲” or “▼” button to select CLOCK and then press the MENU button to enter the time setting.

Press “◀” or “▶” button to select the items to be set: hour, minute, year, month, day; press the “▲” or “▼” button to set the value and then press the MENU button to save the settings. Please refer to Fig. 19.

Note: If you need to use both the wired controller and remote controller, please ensure that the clock settings match.

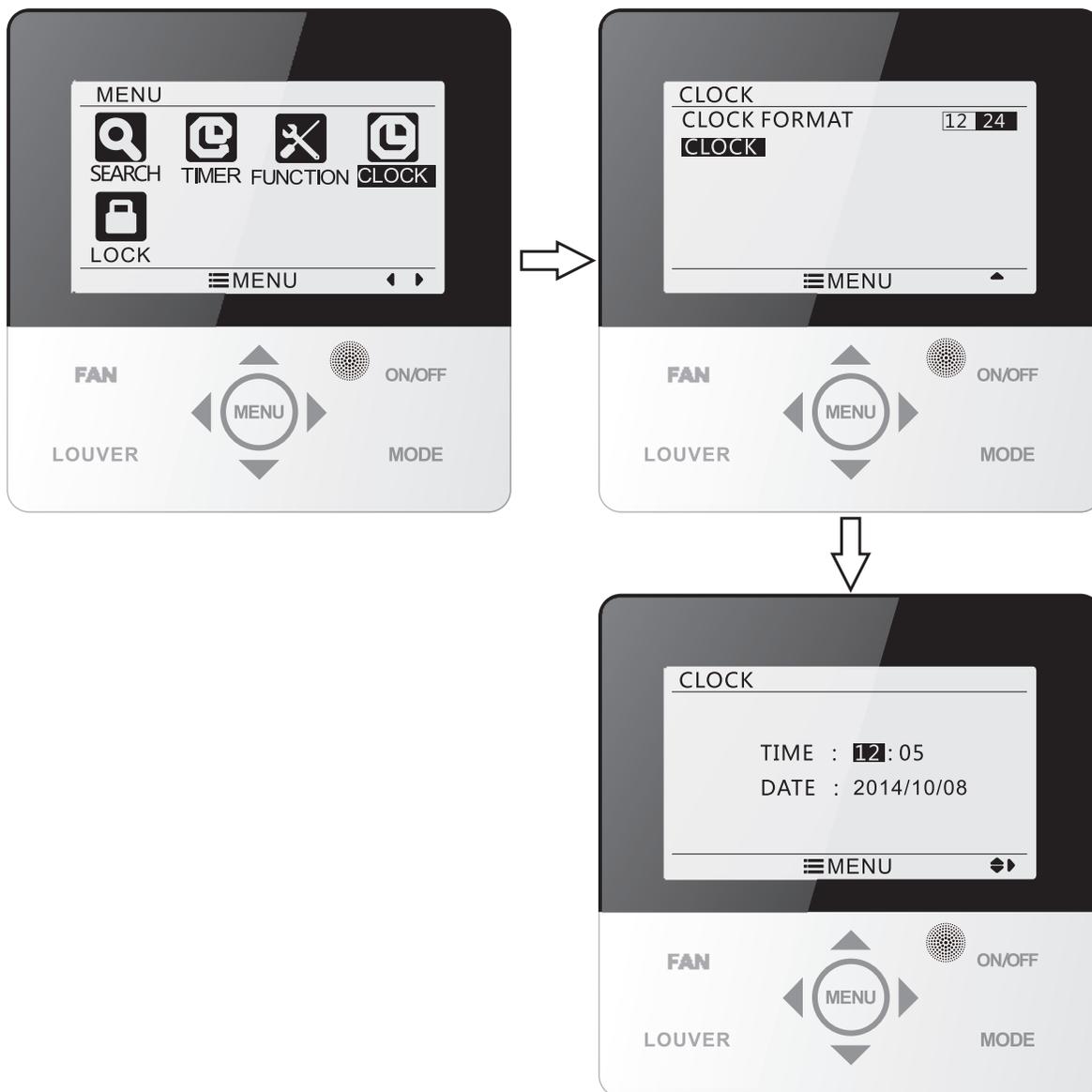


Fig. 19 Clock Setting

### 3.13 Lock Setting

Select the lock symbol on the main menu screen, then press the MENU button to enter the LOCK screen. Press the “▲” or “▼” button to select the item to be locked, then press the “◀” or “▶” button to lock or unlock. Please refer to Fig. 20.

The following items can be locked: ON/OFF, mode setting, temperature setting, fan speed setting, key lock. After locking, the corresponding item cannot be set through buttons on the main display.

If the keys are locked, all keys cannot be operated upon returning to the main screen. Follow the instructions on the main screen to unlock the keys. To unlock the keys, press the MENU button, press the “◀” button and then press the “▶” button.

# Mini / Multi-Split Programmable Controller

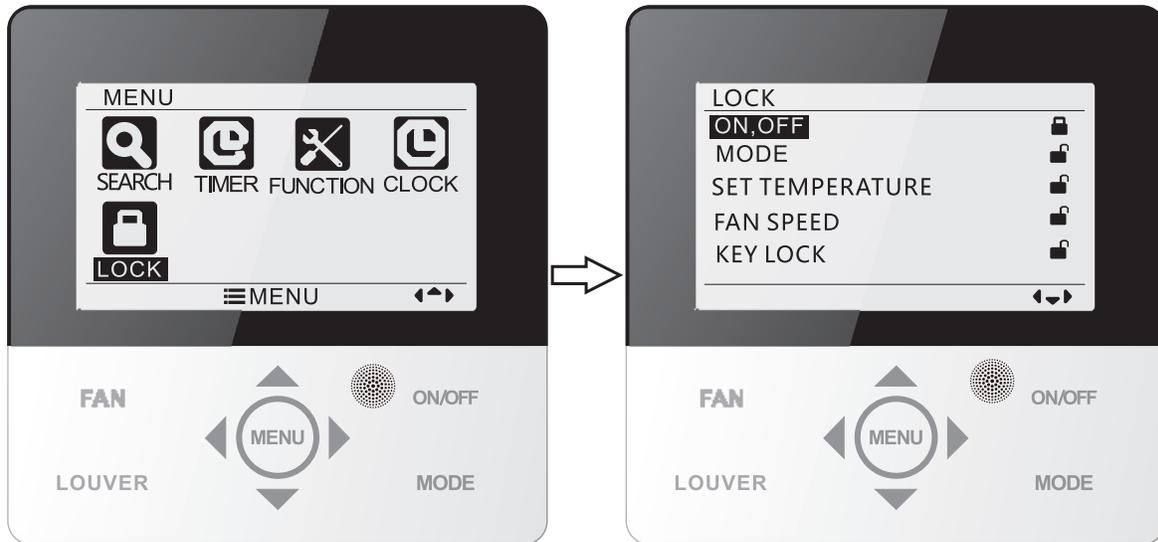


Fig. 20 Lock Setting

## 4 Installation Instructions

### 4.1 Parts and Dimensions of Wired Controller

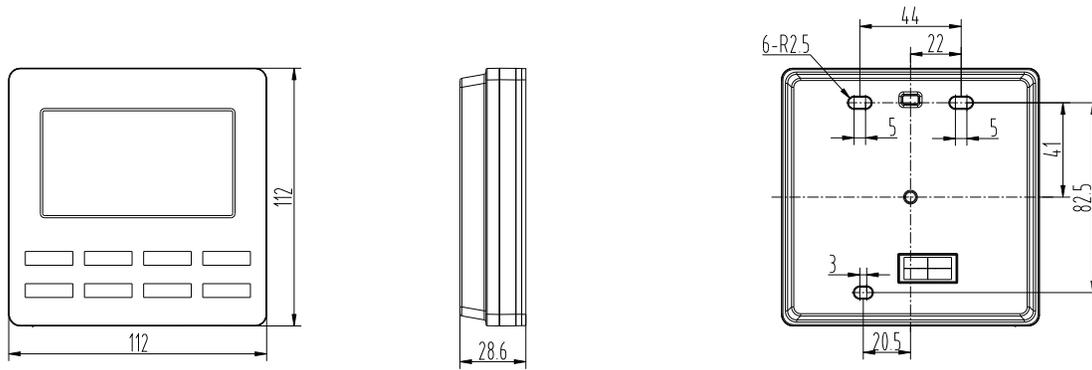


Fig. 21 Dimensions of wired controller

unit: mm

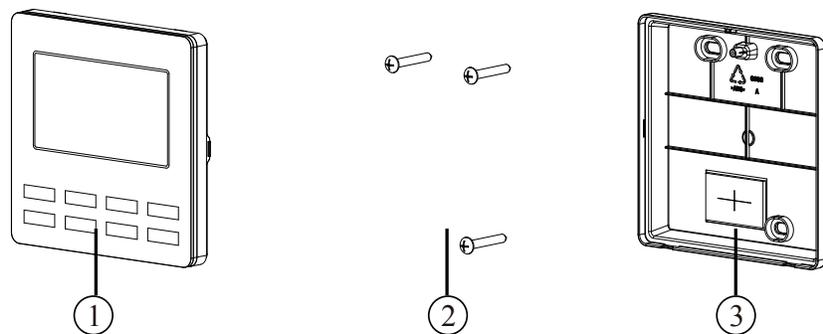


Fig. 22 Parts of wired controller

No.	1	2	3
Name	Panel of wired controller	Screw M4 × 25	Mounting plate of wired controller
Quantity	1	3	1

## 4.2 Installation Requirements

1. Do not install the wired controller in a damp place or in direct sunlight such as directly opposite a window.
2. Do not install the wired controller close to a high-temperature object or in a place where the wired controller is likely to be exposed to water spray.
3. Do not install near electrical lines within the walls.
4. To avoid abnormal operation caused by electromagnetic interference or other causes, please note the following during wiring.
  - a. Be sure the communication line is wired into the correct port, otherwise it would result in a communication fault.
  - b. The communication wiring should be kept at least 12 inches from any high voltage wiring.
  - c. The factory-provided wiring, or equivalent, must be used to ensure good communication.

## 4.3 Installation Instructions

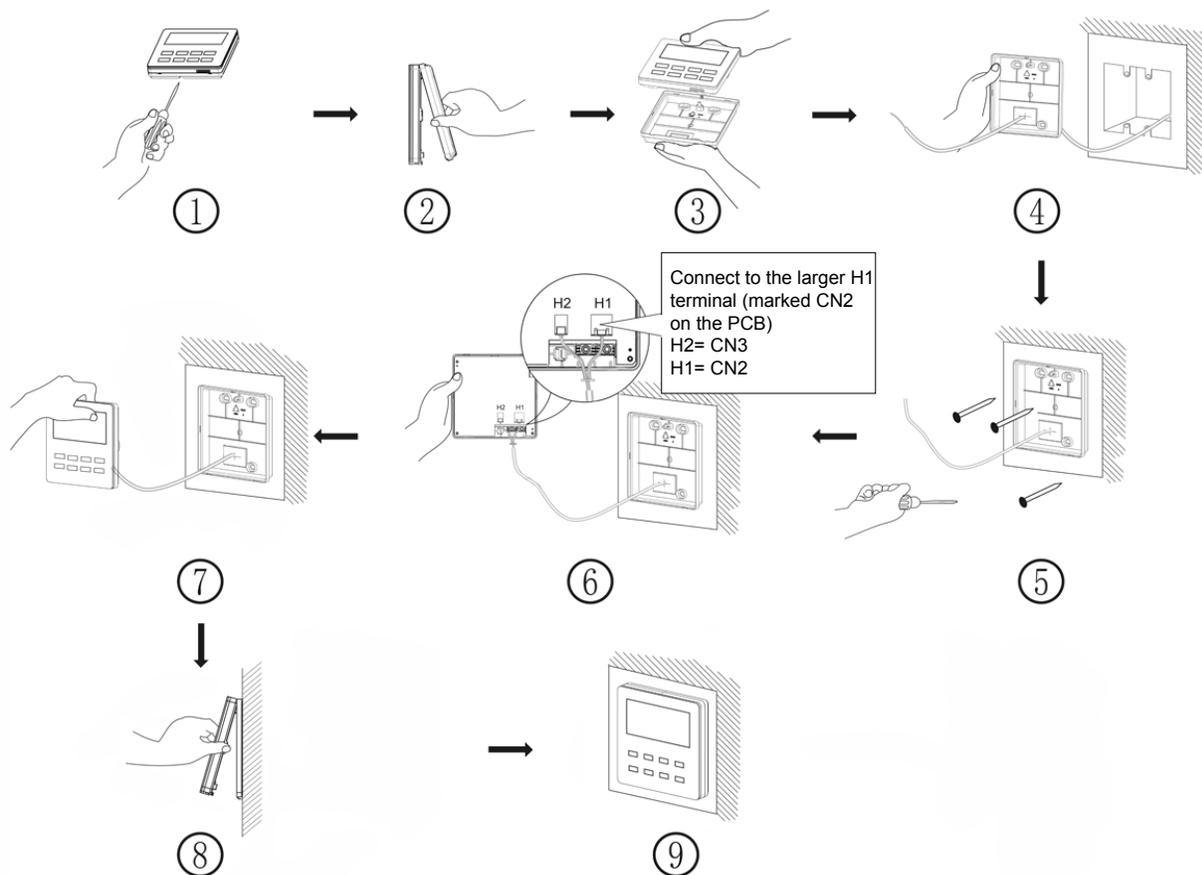


Fig. 23 Installation diagram for wired controller

## Mini / Multi-Split Programmable Controller

The specific installation steps are shown in Fig. 23:

Note: To ensure good communication, use the factory-provided communication wiring, or equivalent. The recommended distance between the indoor unit and the controller is 25 feet (8m), but can be up to 65 feet (19.8m)

1. Check that the power is off before installing the wired controller to avoid the risk of electric shock.
2. Pull out the communication line from the wall mounting hole, and pull this wire through the hole at the rear side of the mounting plate of the wired controller.
3. Place the mounting plate of the wired controller on the wall and then use M4x25 screws, or similar, to fix the mounting plate onto the wall over the wiring access hole.
4. Connect the communication line to the port marked CN2 on the PCB (shown as H1 in Figure 23) and make sure the line is tightly secured with no potential for a short circuit to occur. Place the wiring into the groove at the left side of the wiring guide; secure the front panel of the wired controller to the mounting plate.

Note:

- Keep the communication wire of the wired controller separated by at least 8 inches from high voltage wiring, including wiring between the indoor and outdoor units.
- Do not run the wired controller wiring where it may be susceptible to electromagnetic interference.

### 4.4 Disassembly

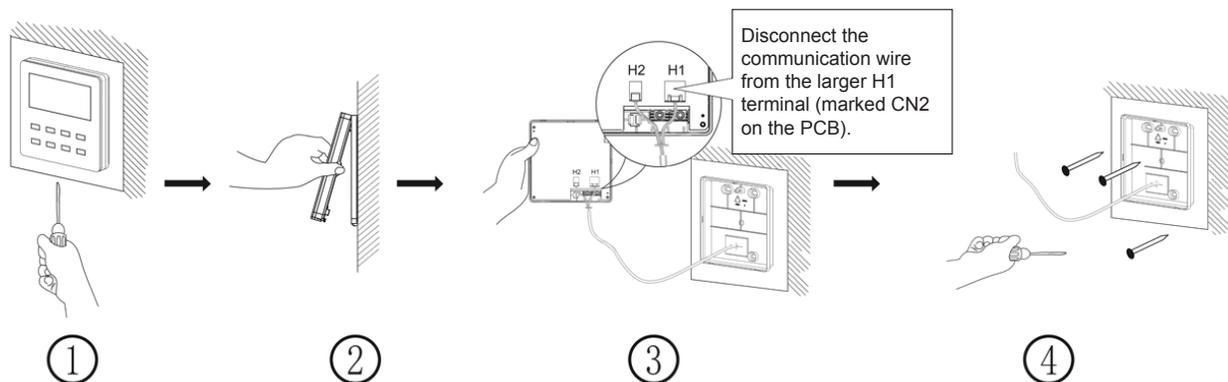


Fig. 24 Disassembly diagram for wired controller