



BOSCH

Installation Instructions

Wired Wall Thermostat

Climate 5000 Series

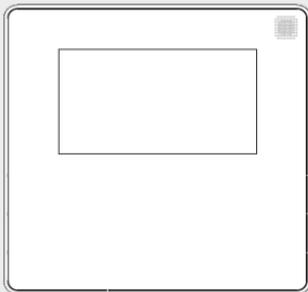


Table of Contents

1	Key to Symbols and Safety Instructions	4	7	Operation Guideline	32
1.1	Key to Symbols	4	7.1	Set Date and Time	32
2	Remote Controller Specifications	5	7.2	Time Scale Selection	33
3	Thermostat Accessories	6	7.2	Cooling/Heating/Fan Operation	33
4	Operation of Buttons	6	7.3	Change Fan Speed	34
5	Indicators on LCD	7	7.4	Follow Me Function (Wall Mounted Indoor Unit Only)	35
6	Installation	9	7.5	Child Lock	36
6.1	Dimensions	10	7.6	Key Pad Tone Setting	36
6.2	Wiring	10	7.7	°F / °C Selection	36
6.3	Remove Back Cover	11	7.8	Turbo Mode (HEAT/COOL modes only)	36
6.4	Mount Back Plate	13	7.9	Swing Function	37
6.5	Battery Installation	14	7.10	Scheduling	38
6.6	Connect to Indoor Unit	15	7.10.1	Programming 7-day Schedule	38
6.7	Connection Guide to Indoor Units	16	7.10.2	Starting Saved 7-Day Schedule	41
6.7.1	For Wall Mounted Units	19	7.10.3	Set Day Off (Holiday)	42
6.7.2	For 2x2 (9-18K) and 3x3 (24-48K) Cassette Units	19	7.11	Copy Existing Schedule	43
6.7.3	For Ducted Units	27	7.12	Delete Saved Schedule	44
		30	7.13	Set Timer On or Off Function	45
			7.14	Set Timer On and Off Function	46

1 Key to Symbols and Safety Instructions

1.1 Key to Symbols

Warnings



Warnings in this document are identified by a warning triangle printed against a gray background.

Keywords at the start of a warning indicate the type and seriousness of the ensuing risk if measures to prevent the risk are not taken.

The following keywords are defined and can be used in this document:

- ▶ **DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- ▶ **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- ▶ **CAUTION** indicates a hazardous situation which, if not avoided, could result in minor to moderate injury.
- ▶ **NOTICE** is used to address practices not related to personal injury.

Important information



This symbol indicates important information where there is no risk to people or property.

2 Remote Controller Specifications

	IDU Type	
	Wall Mounted	Cassette & Ducted
Model Number	BMS-WT1-XXC	BMS-WT2-XXC
Part #	8733956179	8733956180
Input Voltage	DC 5V	DC 12V
Environment (°F / °C)	23~110 / -5~43	

Table 1



Button design is based on a typical model and might be slightly different from the actual one you purchased, the actual shape shall prevail.



WARNING:

- ▶ This product can expose you to chemicals including Lead and Lead components, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3 Thermostat Accessories

No.	Description	Qty	Remarks
1	Wire controller	1	
2	Installation and owner's manual	1	
3	Screws	3	M3.9X25 (For Mounting on the Wall)
4	Wall plugs	3	For Mounting on the Wall
5	Screws	2	M4X25 (For Mounting on switch box)
6	Plastic screw bars	2	For fixing on switch box
7	Battery	1	
8	The connective wires group	1	See Section 5.2 for details
9	Screw	1	M4X8(For Mounting the connective wire group)
10	Magnetic ring	1	Use the magnetic ring to hitch the connective cable of the wire controller
11	Adapter Board and Connection Cables	1	Comes with 120X1, Used for Wall Mounted

Table 2

4 Operation of Buttons

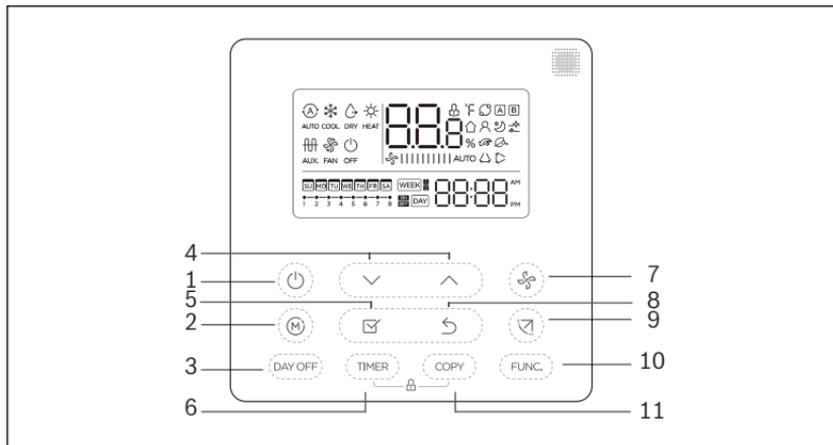
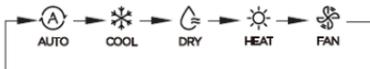


Figure 1

- ON/OFF:** Press this button to turn the system ON or OFF.
- MODE:** Change mode of operation.



- DAY OFF/DEL:** Used to skip day during 7-Day scheduling or delete saved set up.
- ADJUST:** Used to adjust setting.
- CONFIRM:** Used to save setting change.

Operation of Buttons Continued

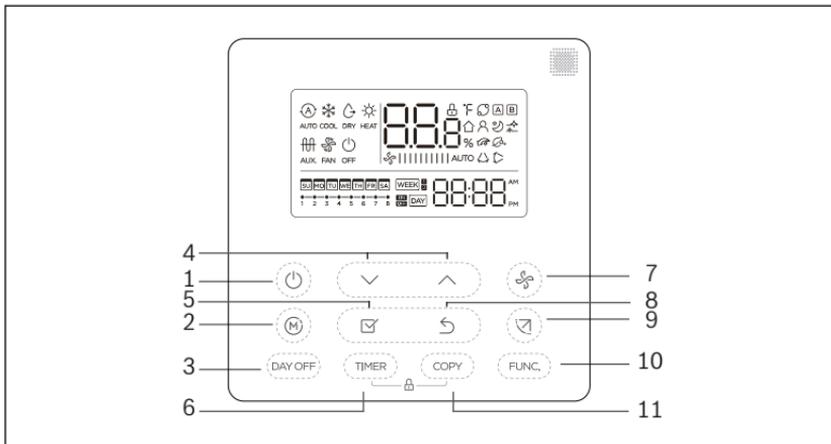


Figure 2

6. TIMER: Set up On/Off Timer, 7-Day schedule.

7. FAN: Change fan speed.



8. BACK: To go back to previous page

9. SWING: Adjust louver angle (Wall Mounted and Cassette type indoors only).

10. FUNCTION BUTTON: To activate Turbo function or Follow Me function

11. COPY: Copy the setting

5 Indicators on LCD

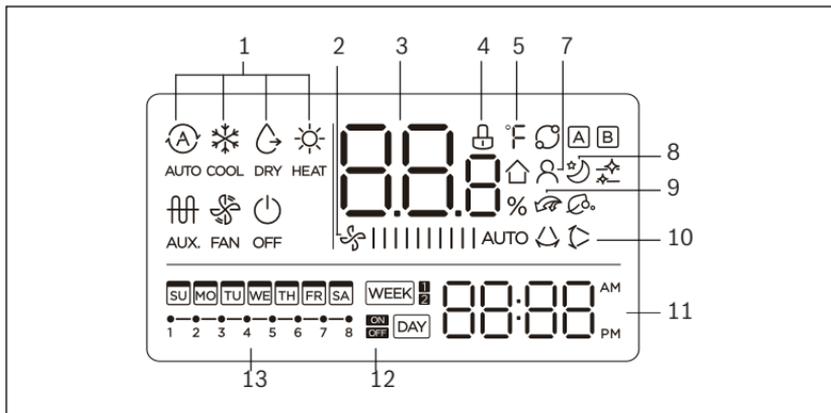


Figure 3

No.	Description	No.	Description
1	Operation mode indication	8	Room temperature indication
2	Fan speed indication	9	Follow Me function indication
3	Temperature display	10	Left-right swing indication (some models)
4	Lock indication	11	Clock display
5	°C / °F indication	12	On/Off timer
7	Turbo function indication	13	Timer display

Table 3

6 Installation

6.1 Dimensions

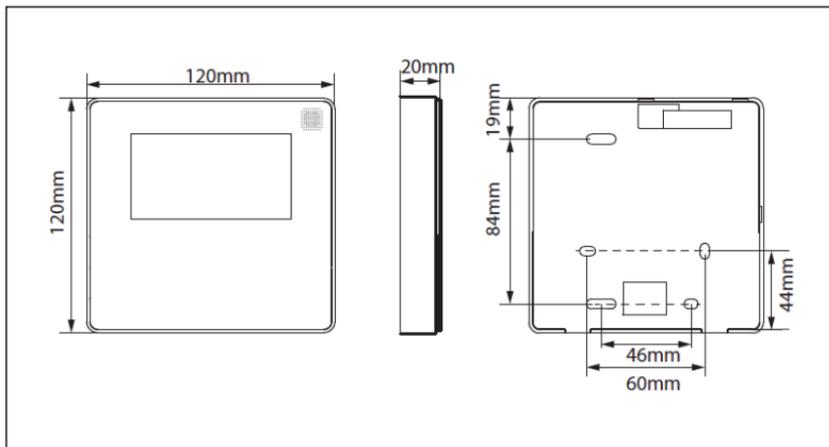


Figure 4

6.2 Wiring

For Wall Mounted Indoor Units

Install the Adapter Board and the Display Board on the Wall Mounted indoor unit.

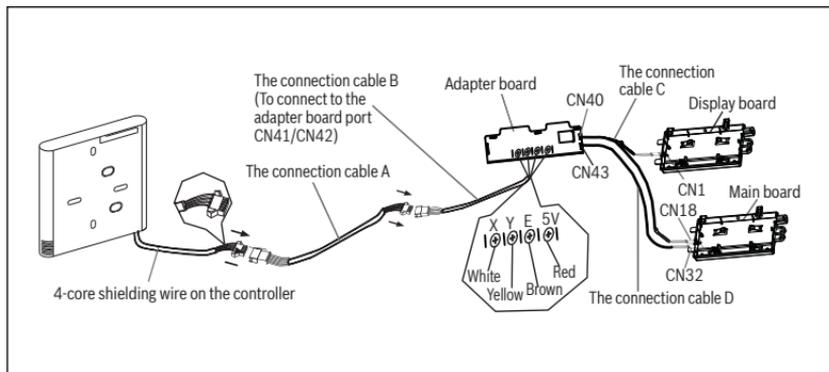


Figure 5

For 4-Way Cassette and Concealed Ducted Indoor Units

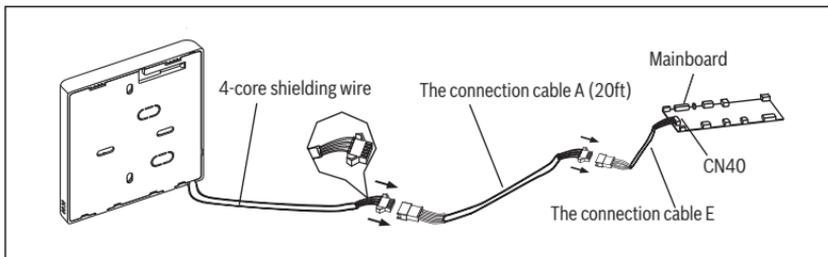


Figure 6



Do not install the wired wall thermostat where it can be affected by:

- ▶ Direct hot or cold air from ducts
- ▶ Drafts or dead spots behind doors and corners
- ▶ Direct sun light contact area

Name	Description	Comes With
Connection Cable A	The 20ft cable	120X1 & 120X2
Connection Cable B	The 4-core wire between Cable A and CN41/CN42	120X1
Connection Cable C	The 3+4 core wire between CN18 and CN40 and CN1	120X1
Connection Cable D	The 2-core wire between CN32 and CN43	120X1
Connection Cable E	The 4-core wire between Cable A and CN40	120X2

Table 4

6.3 Remove Back Cover

1. Insert a flathead screwdriver into the two slots on the bottom of the thermostat.

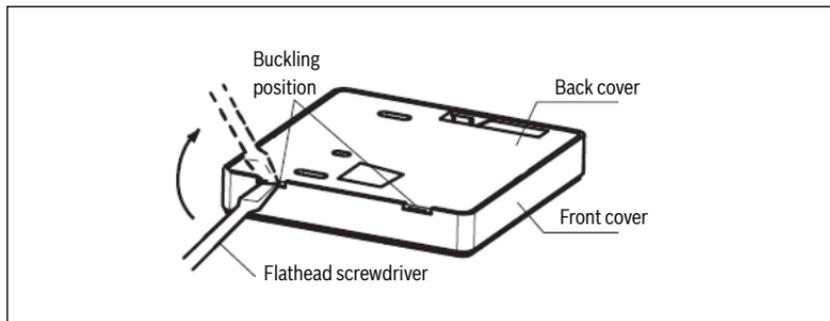


Figure 7

2. Remove the back cover.



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

6.4 Mount Back Plate

1. For surface mounting, install back plate on the wall with the 3 screws (M4x20) and plugs.

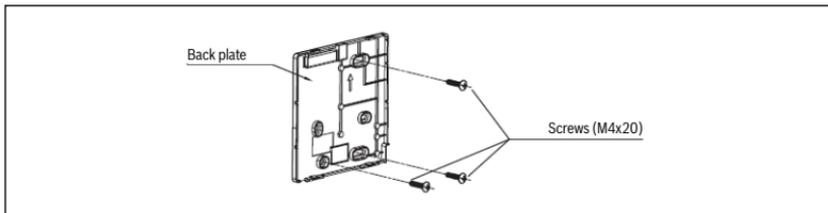


Figure 8

2. For switch box mounting, install the back plate on the switch box with 2 screws (M4x25) and fasten it on the wall with 1 screw (M3.9x25).

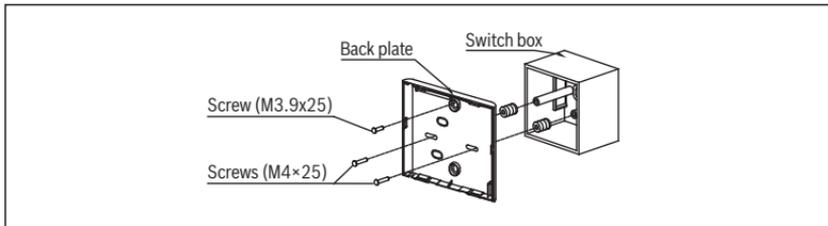


Figure 9

NOTICE:

- Place on a flat surface. Over-tightening screws may damage back plate of the wired wall thermostat.

6.5 Battery Installation

1. Place the battery in the unit and ensure the positive side of the battery is in accordance with the polarity markings.

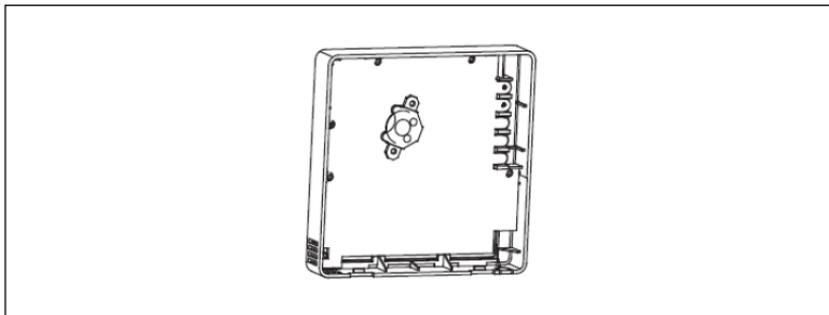


Figure 10

2. 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.

6.6 Connect to Indoor Unit

There are two methods:

Method 1: from back

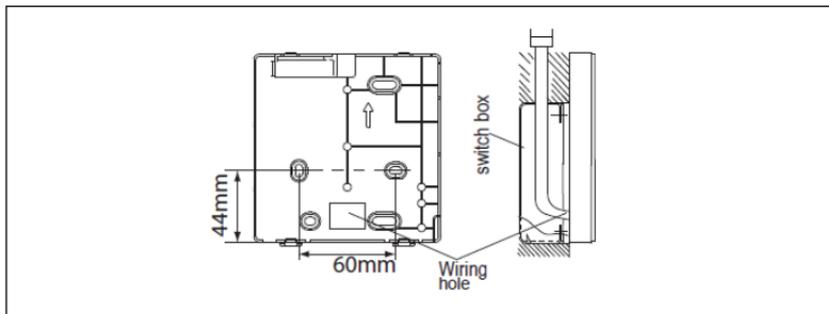


Figure 11

Method 2: from bottom

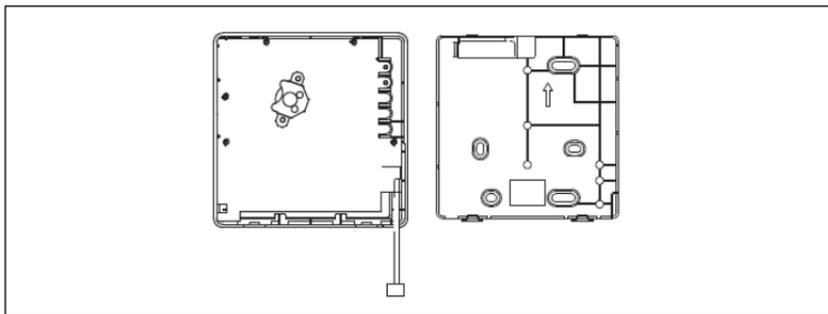


Figure 12



Knock-out the part for the wiring to pass through with a nipper tool.

NOTICE:

- ▶ DO NOT allow water to enter the wired wall thermostat. Use the trap and putty to seal the wires.

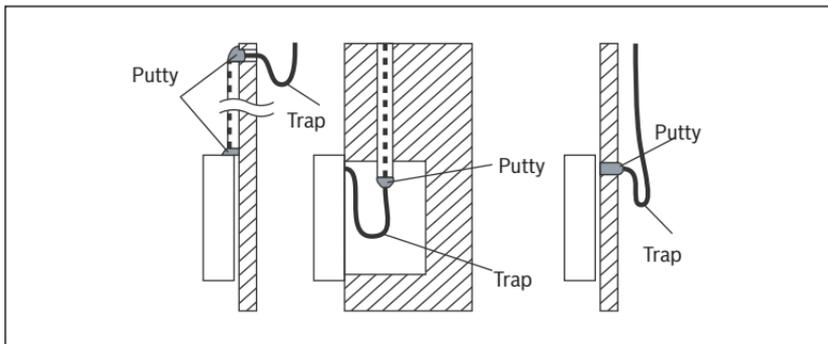


Figure 13

6.7 Connection Guide to Indoor Units

6.7.1 For Wall Mounted Units

1. Open the front panel of the Wall Mounted Unit and locate the display board bracket shown below.



Figure 14

2. Remove the bracket from the units front panel.

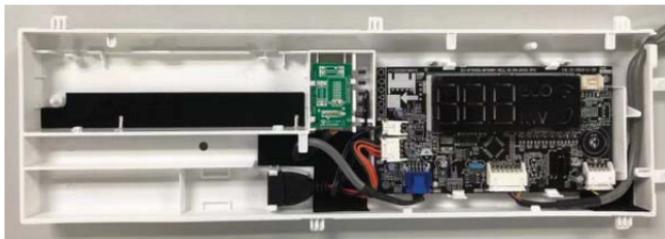


Figure 15

3. Disconnect the wire from CN1 port on the display board.

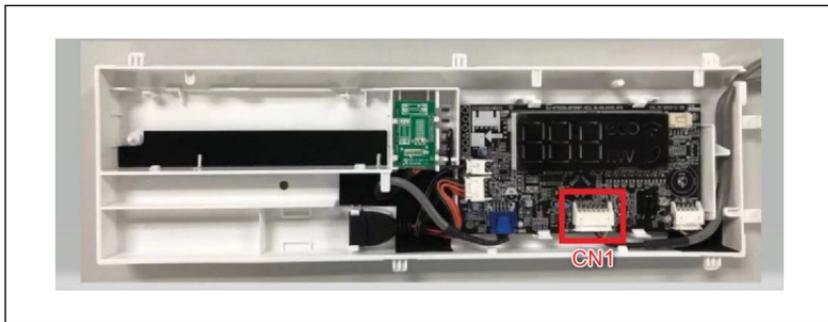


Figure 16

4. Disconnect the wire from CN18 port on the unit's main control board shown below.

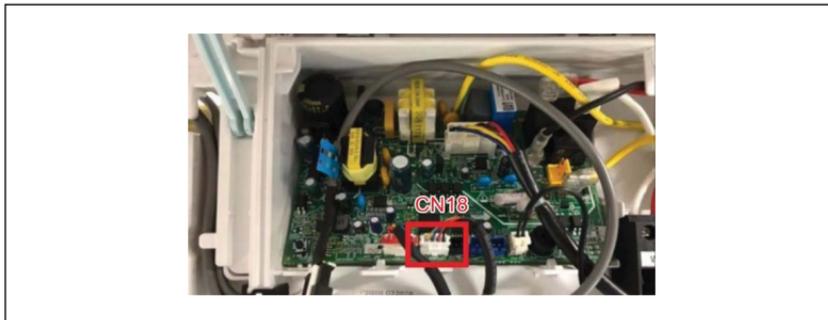


Figure 17

5. Identify the components. From top to bottom, connecting wires and adapter board.



Figure 18

6. Connect the 3+4 core wire (Cable C) to CN1 on Display Board. Then connect the 3 core end on the other end to CN40 shown below.



Figure 19

7. Take the 4 core end from cable C and plug it into CN18 on the Main Board.



Figure 20

8. Plug the white end of the 2 core wire (cable D) into the CN43 port on the adapter board.



Figure 21

9. Place the adapter board in the location shown below.

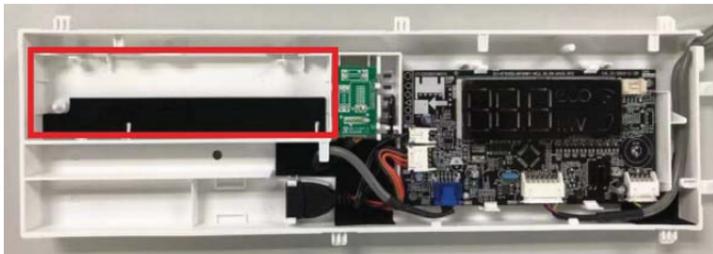


Figure 22

10. Plug the 4 core wire from the thermostat into the 20 ft connecting wire (cable A, green circle), and plug the 4 core wire (cable B) from CN41 and CN42 on the adapter board into the 20 ft connection wire (Cable B, red circle).



Figure 23

11. Connect the black end of the 2 core wire to the CN32 port on the units main control board shown below.

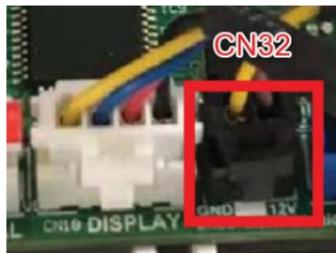


Figure 24

12. Place display & adapter board on the back of the front panel and close the cover of IDU control box.

13. Reattach the Cover of the Wired Wall Thermostat



Avoid clamping during installation.

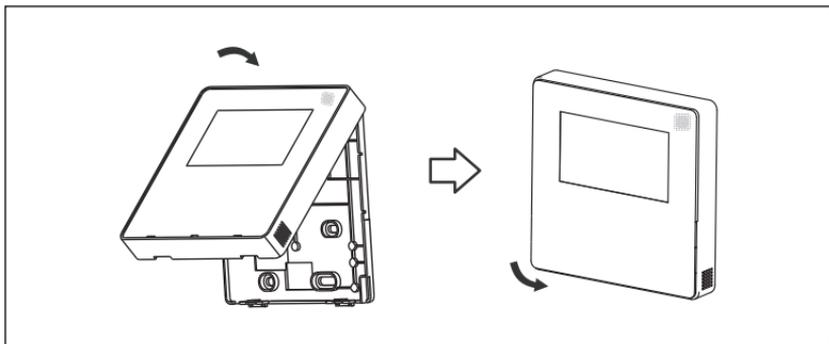


Figure 25

6.7.2 For 2x2 (9-18K) and 3x3 (24-48K) Cassette Units

1. Remove the grille (refer to Cassette Installation Manual) and find the Electronic Control Box.
2. Remove the cover of PCB and locate CN40 port.

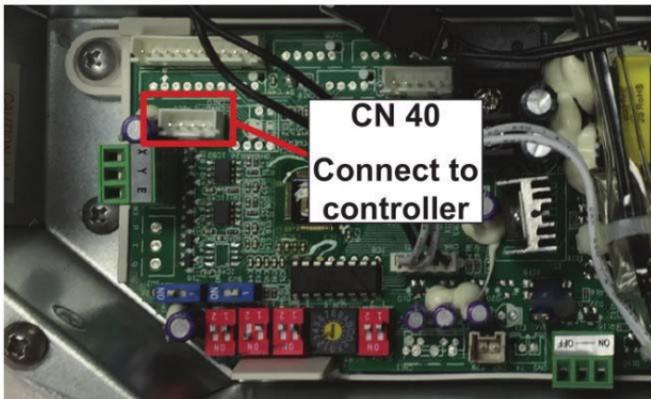


Figure 26 Location of CN40 Port for 2x2 (9-18K) Units

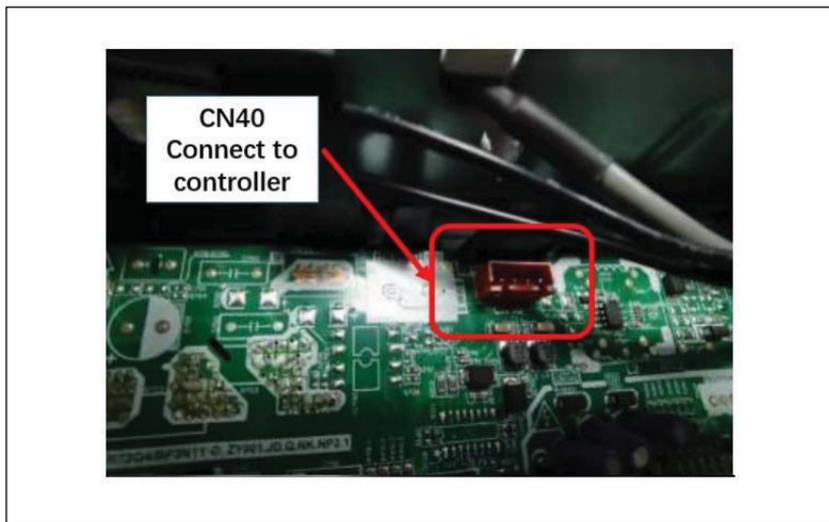


Figure 27 Location of CN40 Port for 3x3 (24-48K) Units

3. Connect the red end of the connection cable E to CN40 on the Main Board



Figure 28 The Connection Cable E

4. Connect the black end of the connection cable E to the connection cable A (20ft)

6.7.3 For Ducted Units

1. Remove the cover of the Electronic Control Box.

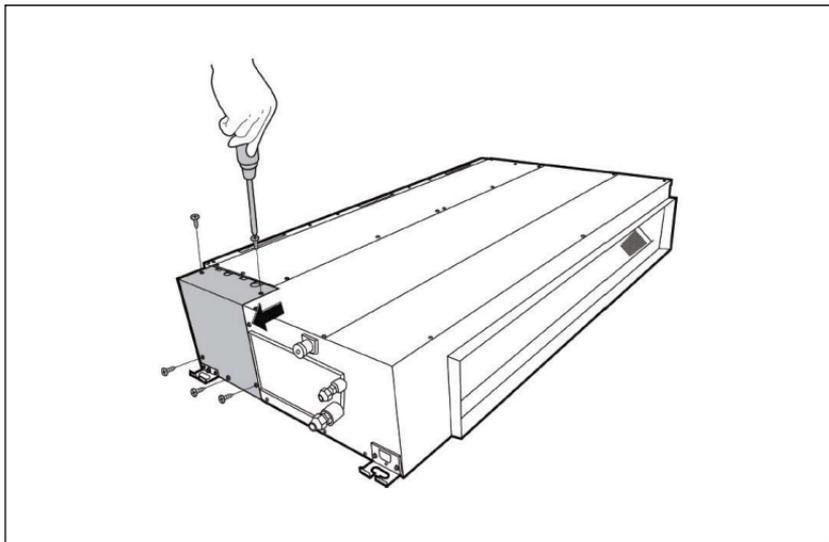


Figure 29 Remove the cover of the Electronic Control Box

2. Locate CN40 Port on the Main PCB.

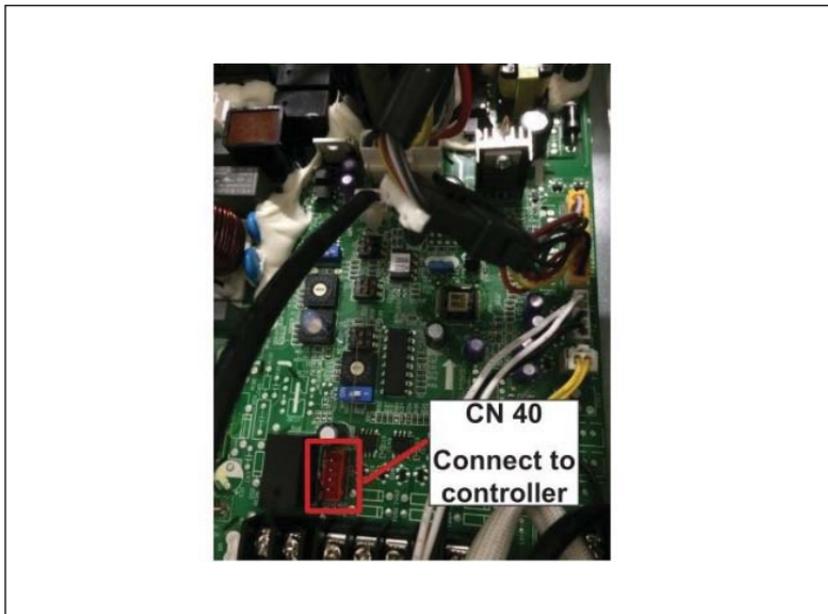


Figure 30 Location of CN40 Port for Ducted Units

3. Connect the red end of the connection cable E (see Figure 30 above) to CN40 on the Main Board.
4. 4. Connect the black end of the connection cable E to the connection cable A (20ft).

7 Operation Guideline

7.1 Set Date and Time

1. Press **TIMER**  for 2 seconds or more. The timer will flash.
2. Press ∇ or \blacktriangle to set the date. The selected date flashes.

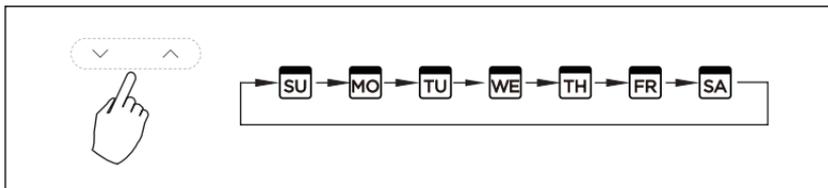


Figure 31

3. Date setting is complete and the time setting is ready after pressing **TIMER**  or the **CONFIRM**  button.
4. Press ∇ or \blacktriangle to set the current time. Press repeatedly to adjust the current time in 1 minute increments.

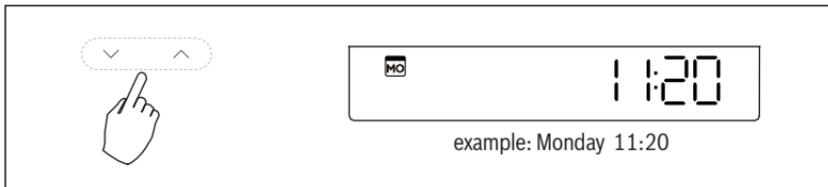


Figure 32

5. The setting is complete after pressing **TIMER**  or the **CONFIRM**  button.

7.2 Time Scale Selection

1. Press and hold the **TIMER**  and **DAY OFF**  buttons for 2 seconds to alternate between 12H and 24H time scale.

7.2 Cooling/Heating/Fan Operation

Ensure the unit is plugged in and power is available.

1. Press the power  button.
2. Press Mode  to change / select desired operation mode.

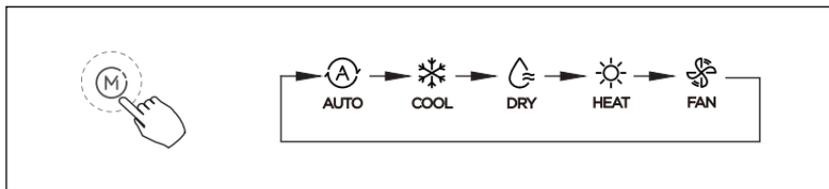


Figure 33

3. Press \vee or \wedge to set desired temperature.

7.3 Change Fan Speed

1. Press Fan Speed  to select desired fan speed or auto speed mode.

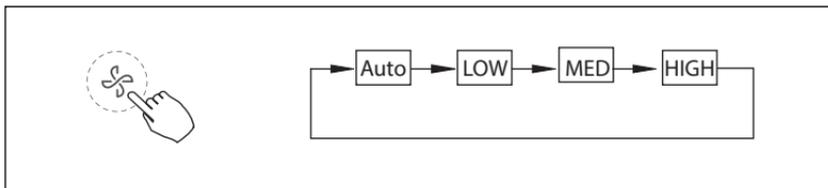


Figure 34



Fan speed cannot be changed in Dry and Auto mode.

7.4 Follow Me Function (Wall Mounted Indoor Unit Only)

By default, room temperature will be measured from the sensor in indoor unit. Follow me function can be activated in order detect room temperature from the wired wall thermostat rather than the indoor unit for better comfort.

1. Press the FUNC.  button to activate the function.
2. When the follow me function  indication appears, the room temperature is detected at the wire controller.

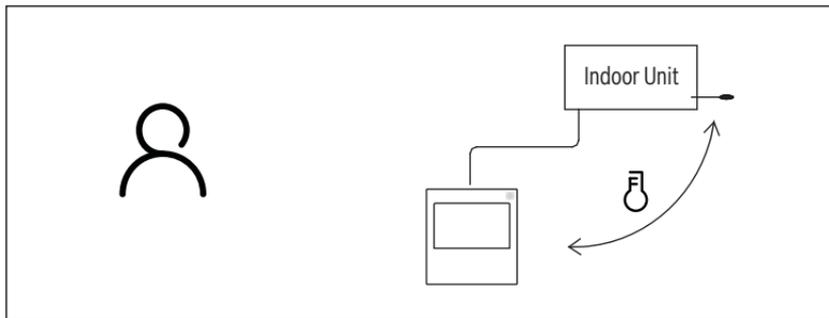


Figure 35



By default, Follow me function in the wired thermostat will be turned on with 4-Way Cassette and Ducted Indoor models.

7.5 Child Lock

1. Press the TIMER  and COPY  buttons for 3 seconds to activate the child lock function  and lock all buttons on the wire controller.
2. Press again for 3 seconds to deactivate.

7.6 Key Pad Tone Setting

1. Press SWING  and FUNC.  simultaneously for 3 seconds to disable the key pad tone.
2. Press both buttons again for 3 seconds to enable the key pad tone.

7.7 °F / °C Selection

1. Press \vee or \wedge and Timer  simultaneously for 3 seconds to change between °F and °C.

7.8 Turbo Mode (HEAT/COOL modes only)

1. Press the FUNC.  button to activate the TURBO function. Press the button again to deactivate the turbo function.

7.9 Swing Function

Louver Up-Down (applicable to Wall mounted and Cassette Indoor models only)

1. Press the SWING  button to start the automatic swing function.
2. Press the SWING  button again to stop the automatic swing function. The louver swings by six degrees every time when the SWING  button is pressed.
3. When the Up-Down auto swing mode is activated, the fan swing icon will appear on the display.

Louver Left-Right (applicable to Wall Mounted indoor units only)

1. Press and hold the SWING  button for 2 seconds to activate the Left-Right auto swing feature.
2. Press the SWING  button again to stop the auto swing feature. The louvers swing six degrees each time the Swing button is pressed

Individual Louver Function

1. Press the SWING  button
2. Use the  or  buttons to select the desired louver to adjust in the following sequence (-0 corresponds to all four louvers).

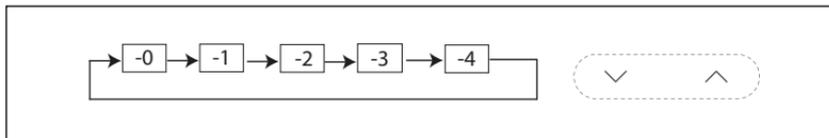


Figure 36

3. Press the SWING  button to adjust the airflow direction of the selected louver.

7.10 Scheduling

7-day schedule

 - Daily schedule can be set

On timer

  - Operation starts after the set time

Off timer

  - Operation stops after the set time

On and Off timer

  - Operation stops after the set time

7.10.1 Programming 7-day Schedule

1. Press Timer  to select the Week and press CONFIRM  .
2. Press  or  to select the day of the week and then press CONFIRM  .

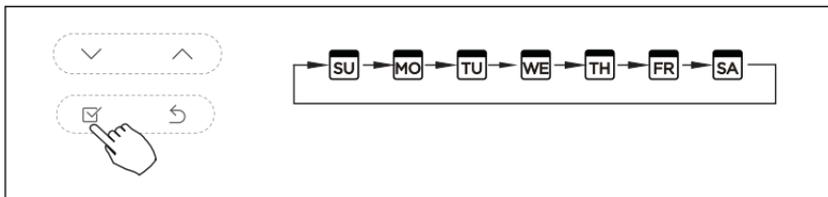


Figure 37

- Press \vee and \wedge to select the set time. The set time, mode, temperature and fan speed appear on the display. Press CONFIRM  to enter the setting time process.



Up to 8 scheduled events can be set on one day.

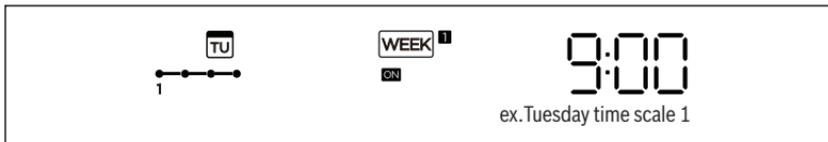


Figure 38



Up to 4 timer settings can be saved for each day of the week. It is convenient if the WEEKLY TIMER is set according to the user's life style.

- Press \vee and \wedge to set the time then press CONFIRM .
- Press \vee and \wedge to set the operation mode then press CONFIRM .

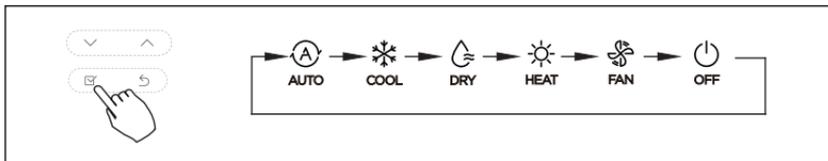


Figure 39

6. Press ∇ and \wedge to set the room temperature then press CONFIRM  .



This setting is unavailable in the FAN or OFF modes.

7. Press ∇ and \wedge to set the fan speed then press CONFIRM  .



Figure 40



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

8. Different schedules can be programmed by repeating steps 3 through 7.

7.10.2 Starting Saved 7-Day Schedule

To Start:

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

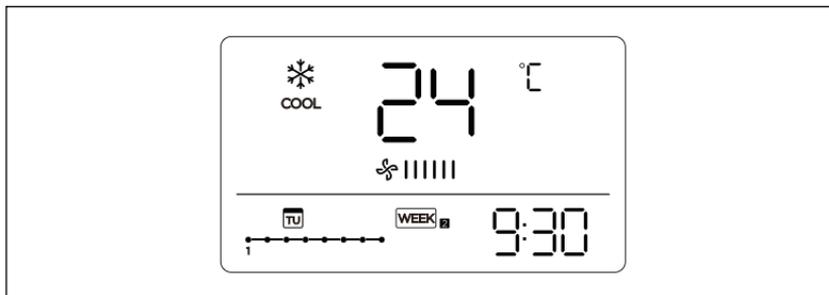


Figure 41

To Cancel:

1. Press Power  to cancel the timer mode.
2. The timer mode can also be canceled by changing the timer mode using Timer .

7.10.3 Set Day Off (Holiday)

1. After starting the 7-Day schedule, press CONFIRM .
2. Press \vee or \wedge to select the day of the week.
3. Press DAY OFF (DAY OFF) (holiday) to create an off day (holiday).

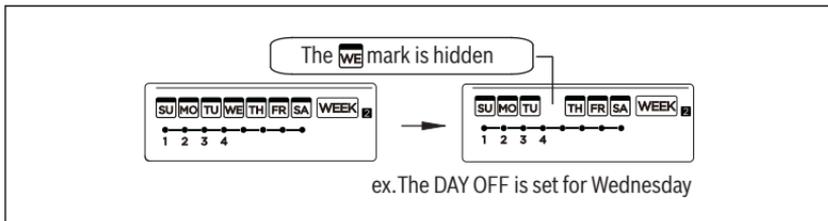


Figure 42

4. Set the DAY OFF (holiday) for other days by repeating the steps 2 and 3.
5. Press BACK \leftarrow to revert to the weekly timer.
6. To cancel, follow the same procedures used for setup.



The DAY OFF (holiday) setting is cancelled automatically after the set day has passed.

7.11 Copy Existing Schedule

A saved schedule, can be copied to another day of the week.

1. After starting the 7-Day schedule, press CONFIRM .
2. Press \vee or \wedge to select the day of the week.
3. Press COPY , the letters CY appear on the display.
4. Press \vee or \wedge to select the day to copy to.

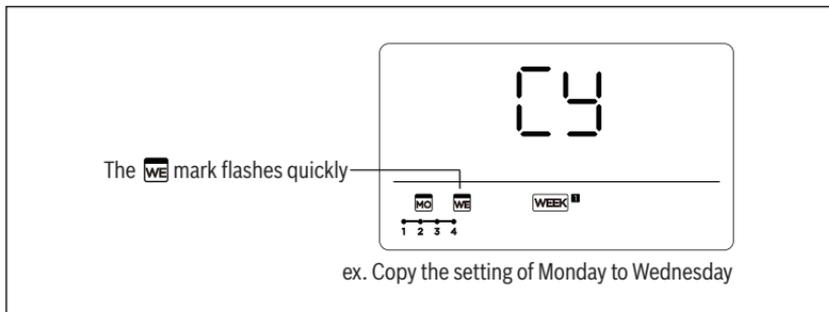


Figure 43

5. Press COPY  to confirm.
6. Other days can be copied by repeating steps 4 and 5.
7. Press CONFIRM  to save the settings.
8. Press BACK  to revert to the 7-Day schedule.

7.12 Delete Saved Schedule

1. Activate 7-day schedule and press CONFIRM .
2. Press \vee and \wedge to select the day to delete and then press CONFIRM .
3. After selecting the day to be deleted, press Day off /Del DAY OFF to delete the saved setting.

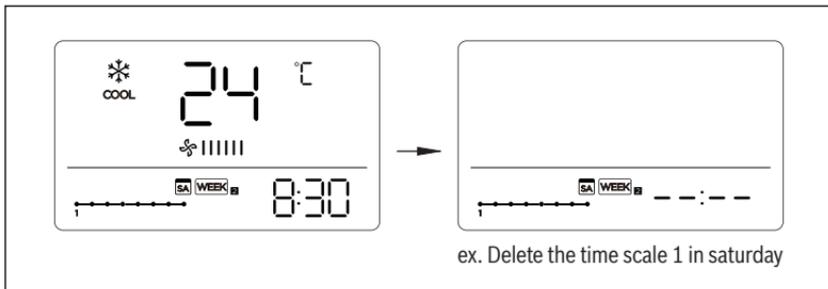


Figure 44

7.13 Set Timer On or Off Function

1. Press Timer  to select the  or .

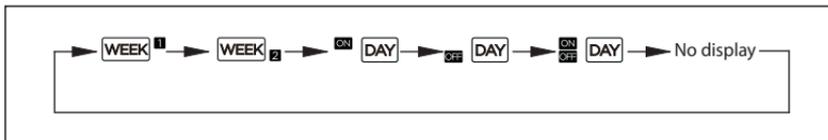


Figure 45

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.



Figure 46

7.14 Set Timer On and Off Function

1. Press Timer  to select the .
2. Press CONFIRM  and the Clock display flashes.
3. Press \vee or \wedge to set the On timer and then press CONFIRM .
4. Press \vee or \wedge to set the Off timer.
5. press CONFIRM  again to finish the setting.

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