



Haier QACT17A Wired Controller User Manual

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ON/OFF



MODE

ROOM

-18.8

°E

00.8

°E

.....

.....

AUTO

.....

.....

AUTO

COOL

HEAT

FAN

DRY



TEMP+



FAN



TEMP-

Haier

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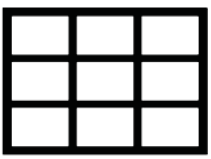
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Part s and Funct ions

Interface Display



Icons

	Room temperature display (dip switch SW1-2 on).
	Set temperature display
	Filter

	<p>HRV (Heat Reclaim Ventilation), if HRV function is set, it will display this icon</p>
	<p>Error icon displays detected fault</p>
	<p>ECO mode on</p>
	<p>Central/lock when connected to a central controller</p>
	<p>UP/DOWN louver swing</p>
	<p>LEFT/RIGHT louver swing</p>
	<p>Child lock on</p>

SW1	ON	OFF	Default
Sw1-1	Subordinate wired controller	Main wired controller	OFF
Sw1-2	Room temperature display on	Room temperature display off	OFF
Sw1-3	Room temperature collected from indoor unit	Room temperature collected from controller	OFF
Sw1-4	System remains off after power loss	Auto restart after power loss	OFF
Sw1-5	Old protocol (models developed before Aug. 2013)	New protocol	OFF
Sw1-6	Backlight always on	Backlight 15 second auto time out	OFF
Sw1-7	Reserved	Reserved	OFF
Sw1-8	Reserved	Reserved	OFF

Dip Switch SW2

SW2	ON	OFF	Default
Sw2-1	Mode Lock	Normal	OFF
Sw2-2	No button confirmation tone. (Tone still sound when command is sent by wireless remote.	Tone on	OFF
Sw2-3	Reserved	Reserved	OFF
Sw2-4	Reserved	Reserved	OFF

Initialization

When the mini-split system is powered on 88.8 will flash between the Room Temperature display and the Set Temperature display until communication is established with the indoor unit

Audible Alert



Press **ON/OFF** to power ON or power OFF the control. A tone will be heard with every button press or when a command is received by a remote control. If a conflicting command is received, then the tone will sound 3 times.

Mode Key/ Fan Key



Mode key: MODE

- Each press of the MODE button will change the operating mode from Auto – Cool – Heat- Fan – Dry

(Dehumidification) -Auto ...

- Each mode has its initial default fan speed.

Mode		Fan speed	Temperature
Initial State	Auto	Auto	76°F
	Cool	High	76°F
	Heat	Auto	76°F
	Fan	Low	No temperature display
	Dry (Dehumidification)	Auto	76°F

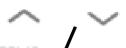


Fan Key: FAN

Each press of the FAN button will change the fan speed from Auto-Quiet (some models)-Low-Medium -High-Turbo (some models) – Auto ...

	Quiet Fan Speed (some models)
	Low Fan Speed
	Medium Fan Speed
	High Fan Speed
	Turbo Fan Speed

Temperature



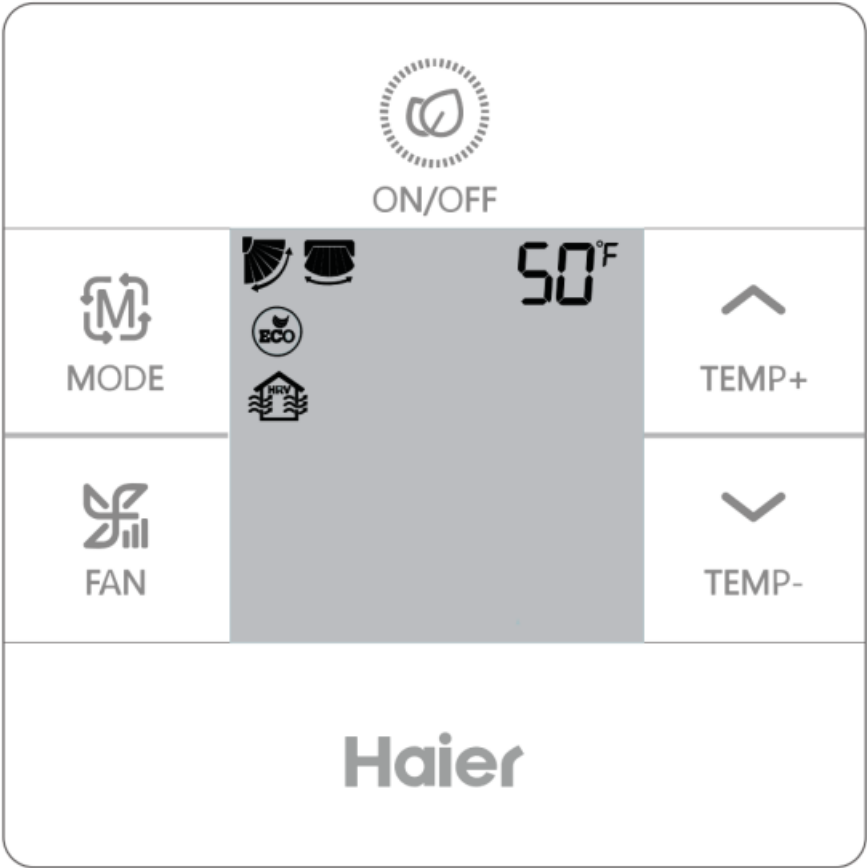
Temperature Adjustment Keys: TEMP+ / TEMP-

- Press the TEMP+ or TEMP- keys to change the temperature by 1 °F increments.
- The temperature set point range for Auto, Cooling, Heating and Dry (Dehumidification) is 60°F-86°F (If ECO is on, then temperature range will change per the ECO setting parameters).
- The temperature is set independently under Auto, Cooling, Heating and Dehumidify modes. Once the temperature is set in each mode the setting will be saved for that mode.
- In fan mode, Temp+/- keys do not work.













Function Selection

Special Function Selection:

With the control powered on, press and hold the TEMP+ for 5 seconds to enter the special function menu. All the special function icons will display. Use the TEMP+ and TEMP- buttons to move between icons. Use FAN button to select function.



Function Selection

   		Horizontal (up/down) louver setting. Press fan to enter. Use TEMP buttons to select louver position. Press fan to save.
		Vertical (left/right) louver setting. Press fan to enter. Use TEMP buttons to select louver position. Press fan to save.
		Clean Filter Alert. Press fan to reset.
		ECO mode limits set temperature. To set Eco parameters, see Installer Settings.
		HRV (Heat Reclaim Ventilation) model. (Future release)
		Only displayed when menu is entered while in Heat mode. Sets unit to 50°F Heat mode. Used for vacation mode.
		Upper Louver Lock – Locks the horizontal louver in the top position. Commonly used during cooling.
		Lower Louver Lock – Locks the horizontal louver in the lower position. Commonly used during heating.

Installer Settings




Adjust ECO Parameters:

- Cooling: Power on the unit. Adjust set temperature to 86°F.
Press and hold FAN and TEMP+ for 5 seconds. The minimum allowable set temperature will be displayed in the top right corner. Use TEMP+/- to change the parameter, then press FAN save. The default minimum temperature is 73°F.
- Heating: Power on the unit. Adjust set temperature 60°F.
Press and hold FAN and TEMP- for 5 seconds. The maximum allowable set temperature will be displayed in the top right corner. Press TEMP+/- to change the parameter, then press FAN to save. The default maximum temperature is 79°F.
- Dry (Dehumidification) ECO parameters are the same as Cooling.



Child Lock:



- Press and hold TEMP+ and TEMP- for 5 seconds to activate/ deactivate the Child Lock function. When the

Child Lock function is active,  will appear.

Lock Settings / Fahrenheit Setting

Central/Lock Function: /

Function is active only when system has a central control, such as the YCZ-A004. This setting is activated only by the central Control.

	Central Control	On/Off function only available.
	Central Lock	No functions available.

Fahrenheit Setting and Display:

- Fahrenheit to Celsius: Adjust set temperature to lowest setting; 60°F when ECO is off. Press and hold TEMP- for 15 seconds. During the 15 second count the display will beep once at 5 seconds and display error codes. Then after another 5 seconds, the display will beep once again and display 00, after 5 more seconds the display will change to Celsius.
- Celsius to Fahrenheit: Adjust set temperature to highest setting; 30°C when Eco is off. Press and hold TEMP+ for 15 seconds. During the 15 second count, the display will beep once at 5 seconds and enter Special Functions menu. Then after another 5 seconds, the display will show 00, after 5 more seconds the display will change to Fahrenheit.

Temperature Compensation

Set Temperature Compensation:

- With the display off, press and hold the FAN button for 5 seconds. The display will then show O (default) or current compensation setting. Use TEMP+/- buttons to adjust the compensation. Compensation can be set in 1° increments +/- 8°F (0.5°C increments up to +/-4°C).
- Temperature compensation changes the ambient temperature reading. If the system is sensing the ambient temperature at 72°F and the compensation is set to -2° then the system will use 70°F in its operation to heat or cool.

Forced Defrost:

- Set to Heating mode, high fan, and 86°F (30°C), or highest temperature if ECO is on. Press TEMP+ 6 times within 5 seconds. Three tones will confirm that the unit is in forced defrost mode.

Forced Cooling:

- Set mode to Cool. Tap ON/ OFF. Tap any button, except ON/ OFF, to light the display. Press and hold ON/OFF for 5 seconds. LL will display and the control will beep twice. To exit, turn off control and turn it on


again.

Forced Heating:

- Set mode to Heat. Tap ON/ OFF. Tap any button, except ON/ OFF, to light the display. Press and hold ON/ OFF for 5 seconds. HH will display and the control will beep twice. To exit, turn off control and turn it on . again.

Error Checks

How to check error: 

- If there is an error,  will display.
- Check error: Press and hold TEMP- button for 5 seconds. The error history will appear in the top right corner. The current error will appear in the middle of the screen. If there is no error, "—" will display.

Mode Restriction

Mode Restriction Function:

- When SW2-1 is on, the system mode lock is on. This will lock the mode to Heat, Cool, Dry or Fan. No button press can change mode. All other control functions are available such as fan speed, set temperature, and on/off.
- Mode can still be changed with a wireless control, another wired control, or a central control.
- When setting mode lock, have control set to desired mode. Set dipswitch SW2-1 to ON. Disconnect and reconnect system power.

Checking Parameters (only applies to some models):

- Press and hold TEMP+ for 10 seconds to check the parameters. The parameters will appear in the middle of the screen to show indoor address (00-15), Letters will appear after decimal display (AbCdEF). The detailed parameters will show on the top right corner. See table for definitions.
- If the control is connected to multiple indoor units, each indoor unit can be viewed by pressing the FAN button. Then use TEMP+/- to switch between connected indoor units.

Parameter Inquiry

Display	Description	Value
A	Indoor sensor – Ambient (Tai)	Temperature °F (°C)
b	Indoor sensor – Vapor (Tc1)	Temperature °F(°C)
C	Indoor sensor – Liquid (Tc2)	Temperature °F (°C)
d	Indoor EEV position	Half of actual position
E	Indoor unit address	Shown in hexadecimal
F	Indoor unit central address	Shown in hexadecimal

Mode Combination Setting

Mode Combination Setting:

- With the control off, press and hold the MODE button for 10 seconds. Use the FAN button to change available modes of operation. 4 is default.

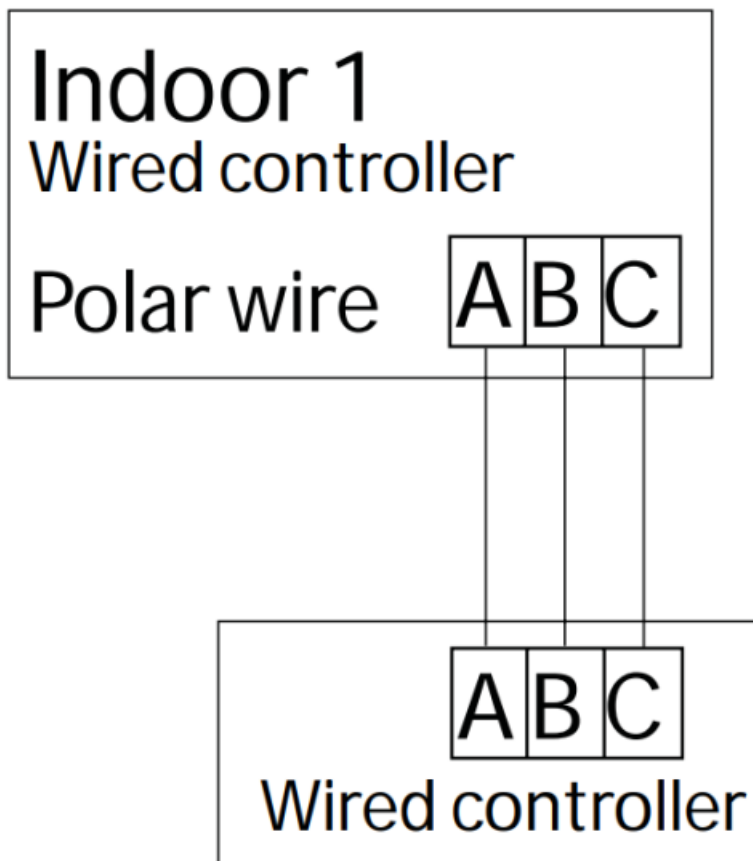
	Auto	Heat	Cool	Dehumidify	Fan
0	✓	✓	✓	✓	✓
1		✓	✓	✓	
2			✓		
3		✓			
4 (default)		✓	✓	✓	✓
5			✓	✓	✓
6		✓			✓

Wired Controller Wiring Instruction

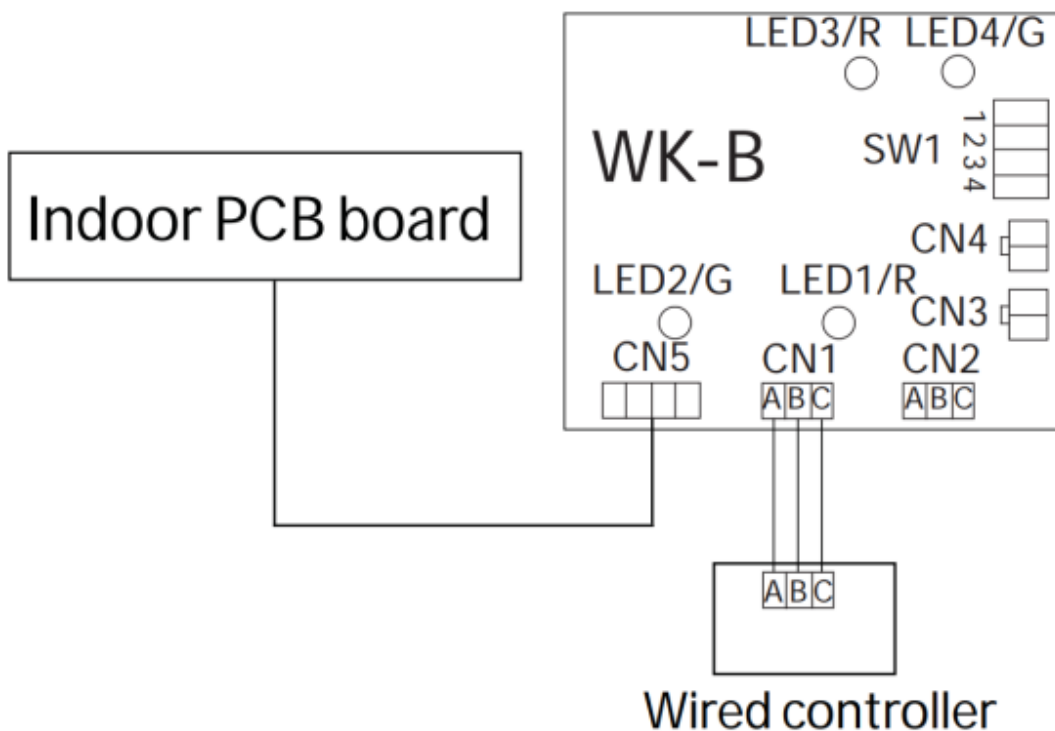
Wiring Connections

A: One control on one indoor

- Cassette (AB ... AL ... MVAB ... MVAL ...)
Ducted (AD ... AM ... MVAD ... MVAH ...)
MRVWall Mount (MVAW ...)

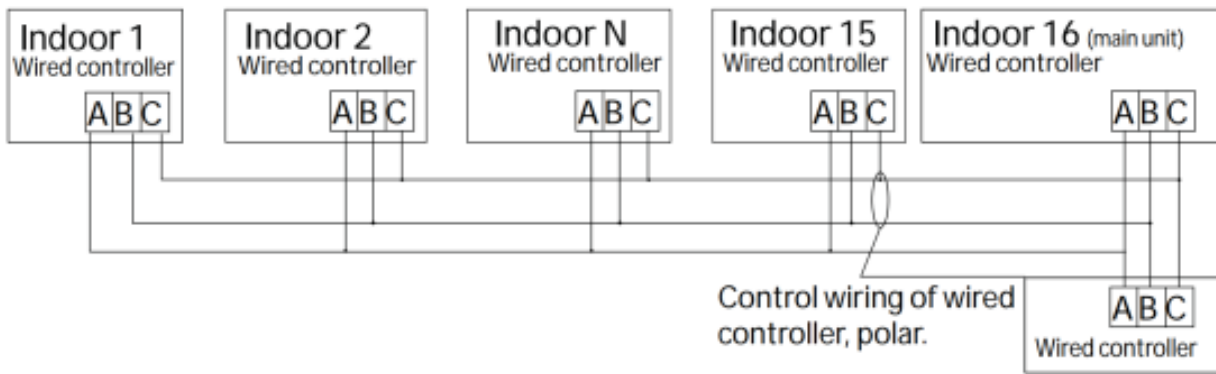


2. Non- MRV Wall mount (AW ...)

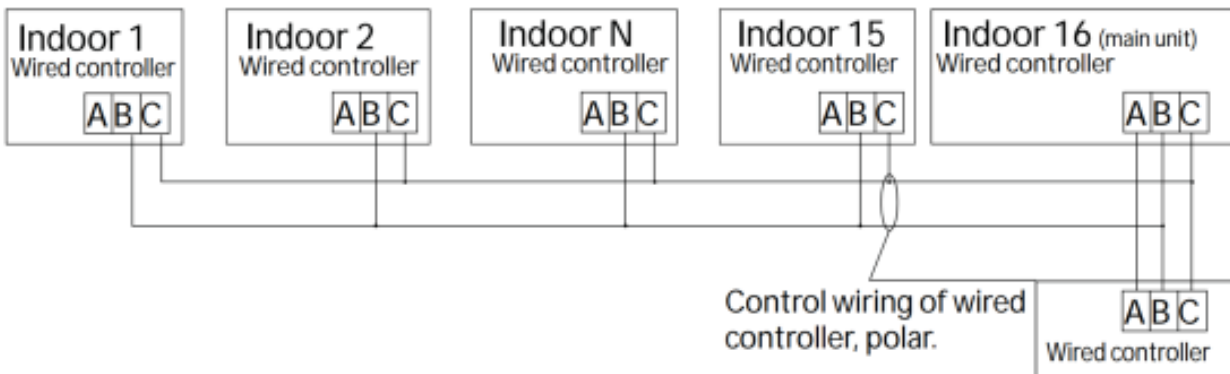


B: One Controller for up to 16 indoor

1. Cassette (AB ... AL ... MVAB ... MVAL ...)
- Ducted (AD ... AM24 ... MVAD ... MVAH ...)
- MRVWall Mount (MVAW ...)



2. Ducted (AM36 ... AM48 ...)

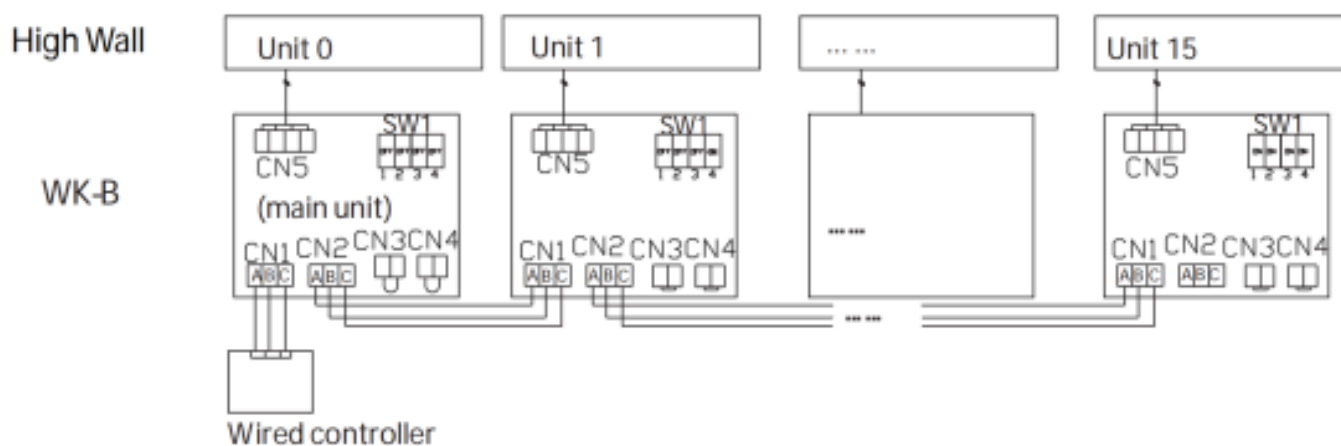


- Addressing Indoor Units
- Each indoor unit must have a unique address.
- Compact Cassette (AB ...) use SW02_1-4
- Large Cassette (AL ...) use SW3_5-8
- Slim Duct (AD ...) use SW03_1-4
- High Static Duct (AM24 ...) use SW03_5-8
- High Static Duct (AM36 ... AM48 ...) use SW02 1-4
- All MRV indoor (MV ...) use SW01_1-4

Dipswitch position					Dipswitch position				
Unit #	1	2	3	4	Unit #	1	2	3	4
	5	6	7	8		5	6	7	8
0*	off	off	off	off	8	on	off	off	off
1	off	off	off	on	9	on	off	off	on
2	off	off	on	off	10	on	off	on	off
3	off	off	on	on	11	on	off	on	on
4	off	on	off	off	12	on	on	off	off
5	off	on	off	on	13	on	on	off	on
6	off	on	on	off	14	on	on	on	off
7	off	on	on	on	15	on	on	on	on
* Unit 0 is connected directly to the control and is main									

Wiring Connections

3. Non- MRV Wall Mount (AW ...)



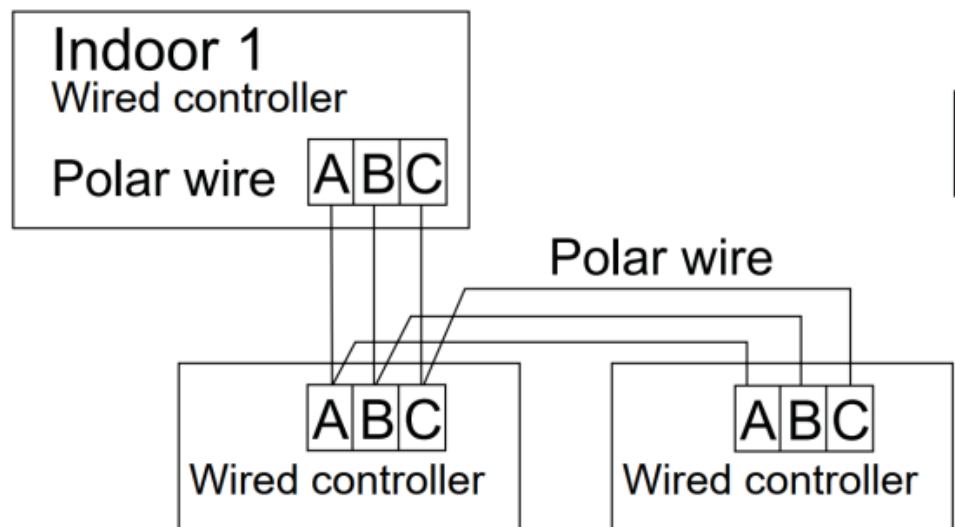
1. The first high wall indoor unit to connect with WK-Bis considered as main unit 0.
2. Remove the jumpers on CN3 and CN4.
3. The wired control must connect to CN1 of the WK- B main unit (unit 0).
4. Connect the CN2 on the main unit (unit 0) to the next WK- B subordinate unit (unit 1) CN1 or CN2. Only the main unit (unit 0) must use CN1 for the control. All others may use CN1 or CN2. See Picture 2.2.
5. Set the dipswitch address of the WK- B adapter. The adapters ship with all switches off (main).

Dipswitch position					Dipswitch position				
Unit #	1	2	3	4	Unit #	1	2	3	4
0*	off	off	off	off	8	on	off	off	off
1	off	off	off	on	9	on	off	off	on
2	off	off	on	off	10	on	off	on	off
3	off	off	on	on	11	on	off	on	on
4	off	on	off	off	12	on	on	off	off
5	off	on	off	on	13	on	on	off	on
6	off	on	on	off	14	on	on	on	off
7	off	on	on	on	15	on	on	on	on
* Unit 0 is connected directly to the control and is main									

C: Two controllers on one indoor

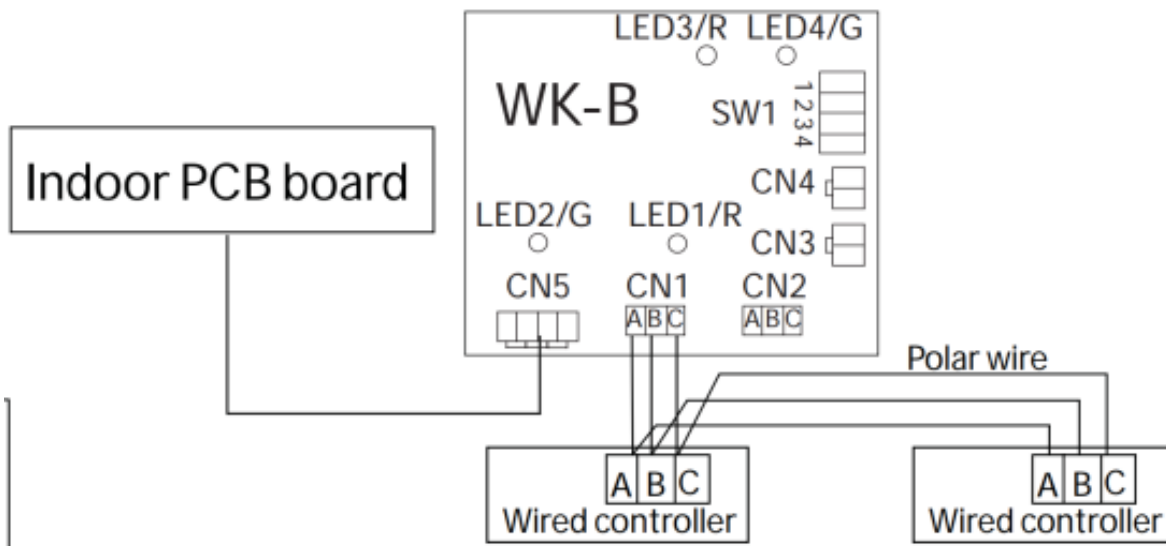
1. Cassette (AB ... AL ... MVAB ... MVAL ...)

Ducted (AD ... AM ... MVAD ... MVAH ...)



MRV Wall Mount (MVAW ...)

2. Non-MRV Wall Mount (AW ...)



Notice: For wired controller connection and warranty details, please follow the corresponding indoor unit installation instructions.

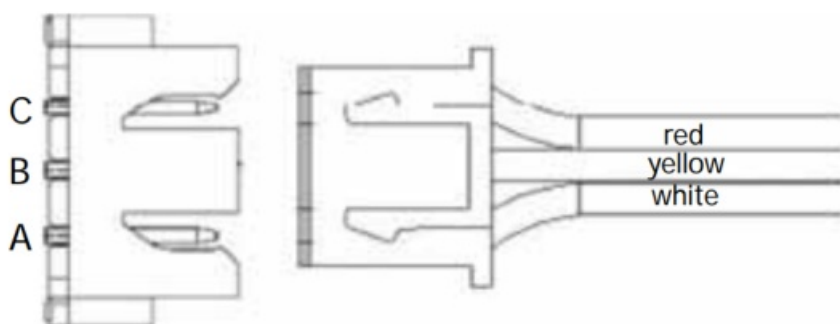
Wired Controller Wiring Instruction

Communication Wiring

Communication wiring length (m/ft)	Wire Size
< 100m / 328ft	0.3mm2x3- core shielded wire (22AWG,3wire)
100m/328ft and <200m/656ft	0.5mm2x3- core shielded wire (20AWG,3wire)
200m/656ft and <300m/984ft	0.75mm2x3-core shielded wire (18AWG,3wire)
300m/984ft and <400m/1312ft	1.25mm2x3-core shielded wire (16AWG,3wire)
400m/1312ft and <500m/1640ft	2mm2x3- core shielded wire (14AWG,3wire)

*Ground only one end of the shielded cable

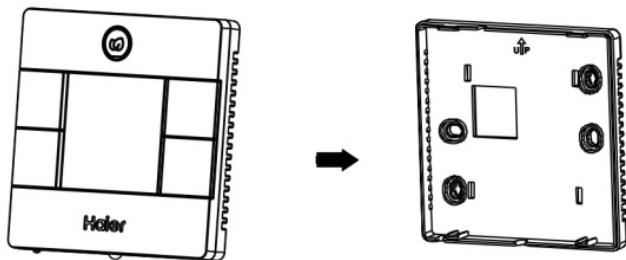
Wiring Diagrams



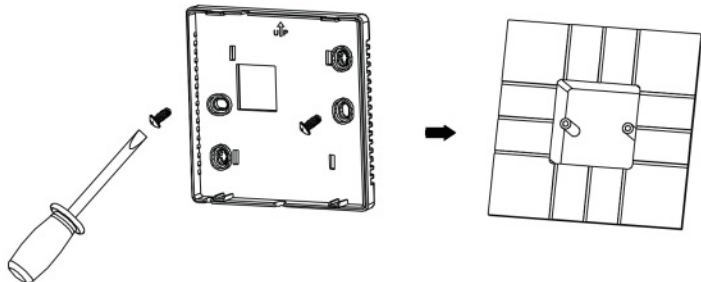
Wired Controller Wiring Instruction

Installation Diagrams

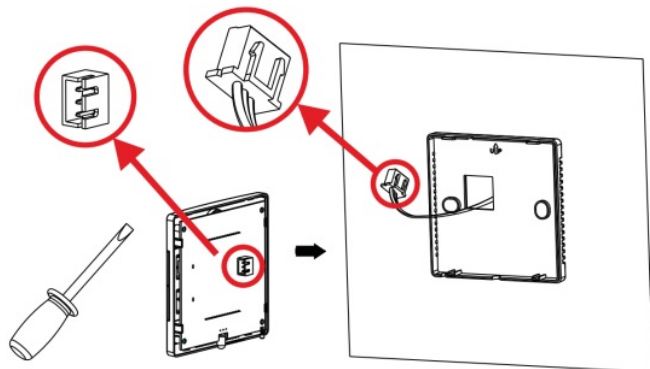
1. To take the front panel and back panel apart, slide the front panel up and press down on the back panel.



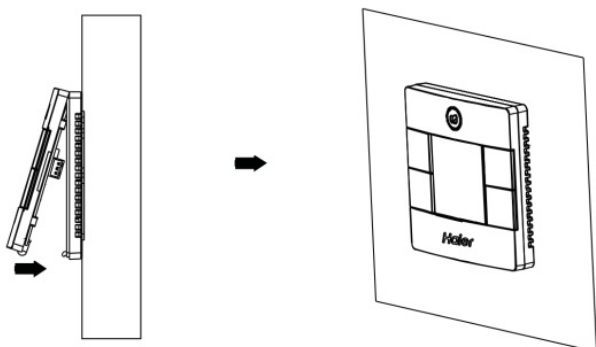
2. Secure the back panel to the wall using screws.



3. Connect the control wires.



4. Attach the control to the back panel by aligning the bottom tabs and then pressing the top edge.



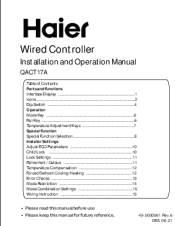

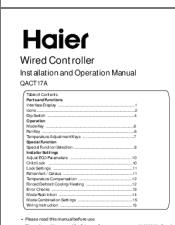
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Documents / Resources

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	Haier QACT17A Wired Controller [pdf] User Manual QACT17A Wired Controller, Wired Controller, QACT17A Controller, Controller, QACT17A

References

-  [Haier Ductless Air Conditioning](#)