



MULTI-ZONE UNIT

WIRED CONTROLLER USER MANUAL

AB SERIES

COMFORT...BUILT TO LAST

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.
- The wired controller will reset to factory setting with auto mode, auto fan and 76°F(24°C) setting temperature when the air conditioner restarts after power failure. This may cause inconsistent displays on the wired controller and on the air conditioner. You need to readjust the running status through the wired controller.

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1. SAFETY PRECAUTIONS

The following contents are stated on the product and in the operation manual, including usage, precautions against personal harm and property loss, and the methods of using the product correctly and safely. After fully understanding the following contents (identifiers and icons), read the rest of this user manual. Store it in a safe place for future reference.

■ Identifier description

Identifier	Meaning
 Warning	Improper handling may lead to personal death or severe injury.
 Caution	Improper handling may lead to personal injury or property loss.
[Note]: 1. “Harm” means injury, burn and electric shock that requires long-term treatment but need no hospitalization 2. “Property loss” means loss of properties and materials.	

■ Icon description

Icon	Meaning
	Forbidden. The forbidden subject-matter is indicated in the icon or by images/characters.
	Indicates compulsory implementation. The compulsory subject-matter is indicated in the icon or by images/characters.

Warning

 Warning	Professionally Install	This unit should only be installed by a certified electrician or HVAC professional. Improper installation may cause fire, electric shock, personal injury or water damage.
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 Usage Warning	Prohibited	Do not spray flammable aerosol to the wired controller directly. Otherwise, fire may occur.
	Prohibited	Do not operate with wet hands or let water enter the wired controller. Otherwise, electric shock may occur.

2. SUMMARY

Usage conditions:

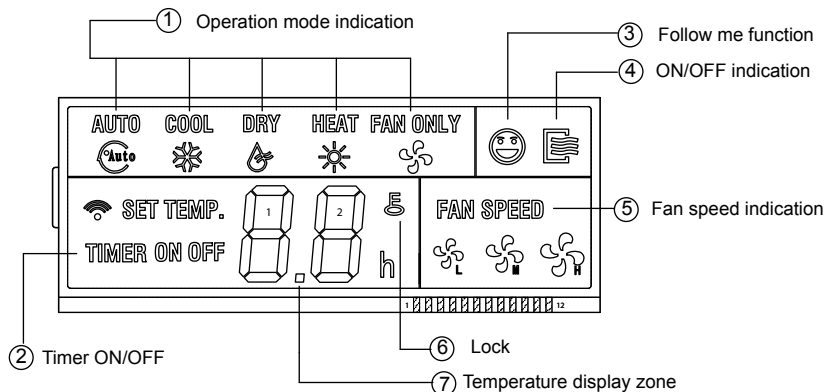
1. Power supply: 5V DC.
2. Operation temperature:
-5°F~109°F(-15°C~43°C)
3. Operation humidity: 40%-90% RH.

3. FUNCTION SUMMARY

Main functions:

1. Connecting to indoor unit by
A, B, C, D, E terminal;
2. Button setting action mode.
3. LCD display.
4. Timer for rest time.

4. INDICATORS ON THE WIRED CONTROLLER



① Operation mode indication:
Each time the "MODE" button is pressed, the mode changes to the next mode in the following sequence: Auto→Cool→Dry→Heat→Fan only→Auto. For cooling only models, heat mode is skipped.

② Timer :
When adjusting the setting for the "on" time or only "on" time has been set, the "ON" is illuminated.

When adjusting the setting for the "off" time or only "off" time has been set, the "OFF" is illuminated. If on and off timer are both set, "ON" and "OFF" are both illuminated.

③ Follow me function:
There is a temperature sensor inside the wired controller. After setting temperature, it will compare the two temperatures, and the space of wired controller will be the same as the

set temperature. This is available under cooling, heating, auto modes.

④ ON/OFF indicator:

When the unit is powered on, this icon is displayed. Otherwise, it is not lit.

⑤ Fan speed indicator:

There are four fan modes: low, mid, high, auto. For models without mid speed, the fan operates low, high, auto.

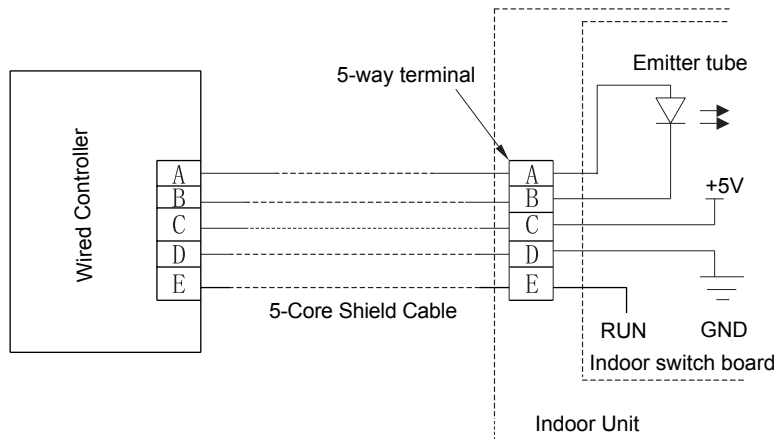
⑥ Lock:

When the "LOCK" button is pressed, the icon appears and all other buttons are disabled. To unlock press the "LOCK" button again.

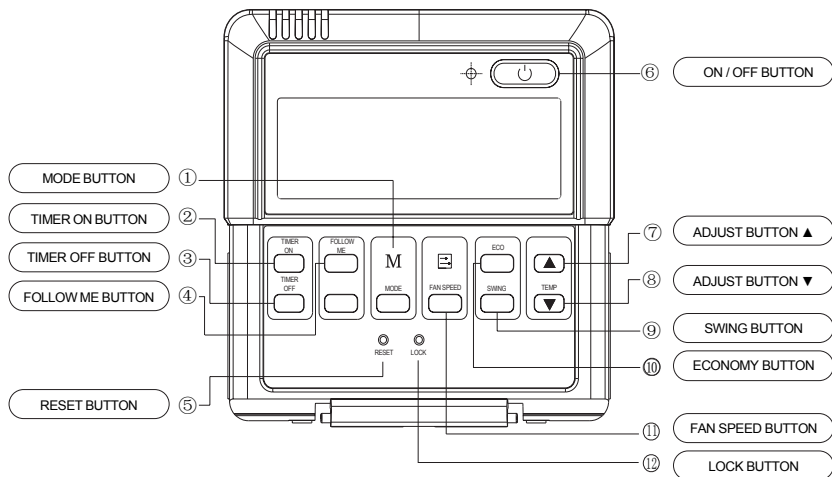
⑦ Temperature display zone:

Generally it displays setting temperature. Temperature can be adjusted by pressing temperature buttons ▲ or ▼. In "fan" mode, however, nothing will appear on this part of the display.

5. INSTALLATION METHOD



6. BUTTONS ON THE WIRED CONTROLLER

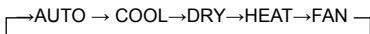


NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the wired controller you purchased (depending on model). The actual shape shall prevail.

① Mode button:

When pressing this button, the operation mode changes in the following sequence:



NOTE: For the cooling only models, the heating mode is skipped.

② Timer on button:

Press this button to activate the timer "on" function. With every press, the time increases 0.5h. Once it reaches, 10 hours, each press of the button will increase the timer by 1h. To cancel this Function, just set timer "on" to "0.0".

③ Timer off button:

Press this button to activate the timer "off" function. With every press, the time increases 0.5h. Once it reaches, 10 hours, each press of the button will increase the timer by 1h. To cancel this Function, just set timer "on" to "0.0".

④ Follow me button :

When in cool, heat and auto modes, press this button to activate the "follow me" function. Pressing the ON/OFF button or MODE button will not cancel the Follow me feature. This function is disabled when the unit is off or under

DRY or FAN mode. Pressing the FOLLOW ME button again will cancel the follow me feature.

⑤ Reset button (hidden):

Press the button in the small hole with a paper clip. This cancels the current setting and the wire controller reverts to its original state.

⑥ ON/OFF button:

When in off position, press this button; the indicator will turn on, the wired controller sends setting information to indoor Pcb. When the unit is on, press this button; the indicator will turn off. If timer on or timer off has been set, pressing the on/off button will cancel this setting, then send instruction to stop the machine.

⑦ Adjust button ▲:

Set indoor temperature up. If this button is held down it will increase at 1°F(1°C) per 0.5 second.

⑧ Adjust button ▼ :

Set indoor temperature down. If this button is held down it will decrease at 1°F(1°C) per 0.5 second.

NOTE: Pressing and holding the UP and DOWN buttons together will alternate the temperature display between the °F & °C scale.

⑨ Swing button:

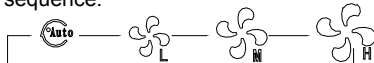
Used to set the airflow direction. Hold down this button for 2 seconds to activate auto swing feature.

⑩ Economy operation button:

Press this button to activate economy mode on the indoor unit. Press it again to exit this mode. This button is only effective on certain models with the Economy feature capabilities.

⑪ Fan speed button:

With each press of this button, the fan speed changes in the following sequence:



⑫ Lock button (hidden):

When you push the LOCK button, all current settings are locked in and the wired controller does not accept any operation except that of the LOCK button. Use the lock mode when you want to prevent settings from being

changed accidentally. Push the LOCK button again when you want to cancel the LOCK mode.

7. HOW TO OPERATE

AUTOMATIC OPERATION

The indoor operation light will flash when connected to power.

1. Press "MODE" button and select "AUTO";
2. Press the "▲" and "▼" buttons to set your desired temperature. Typically it is in the range of 62°F~86°F (17°C~30°C);
3. Press "ON/OFF" button to power the unit on. While in auto mode, the indoor fan is automatically set to "auto" and cannot be changed. Auto is displayed on LCD. Press ON/OFF button again to stop.
4. Economy operation is possible in auto mode.
5. In event of power interruption such as a blackout, the air conditioner stops once but it restarts automatically and performs previous operation when the power supply is resumed.

COOL/HEAT/FAN MODE OPERATION

1. Press "MODE" button, select "COOL", "HEAT" or "FAN ONLY" mode.
2. Press temperature adjusting button (up/down) to select temperature setting.
3. Press "FAN SPEED" button to select high/mid/low/auto.
4. Press "ON/OFF" button to power the unit on in the selected mode. Press this button again to power the unit off.

NOTE: When in fan mode, no temperature can be set.

DRY OPERATION

1. Press "MODE" button until "DRY" illuminates.
2. Press temperature adjusting button (up/down) to select temperature setting.
3. Press "ON/OFF" button to power the unit on in the selected mode. Press this button again to power the unit off.
4. In dry mode, economy operation and fan speed are ineffective.

SETTING THE TIMER

Timer on only:

1. Press the "TIME ON" button; the LCD displays "SET", "H" and "ON". It is now ready for the "timer on" to be set.
2. Press "timer on" button repeatedly to adjust time setting.
3. If this button is pressed and held down, the time will increase at 0.5h increments until 10h. After 10h, it increases by 1 h increments.
4. After 1/2 second, the wired controller sends the timer the "on" information and the setting is complete.

Timer off only:

1. Press the "TIME OFF" button; the LCD displays "SET", "H" and "OFF". It is now ready for the "timer off" to be set.
2. Press "timer off" button repeatedly to adjust time setting.
3. If this button is pressed and held down, the time will increase at 0.5h increments until 10h. After 10h, it increases by 1 h increments.
4. After 1/2 second, the wired controller sends the timer off information and the setting is complete.

TIMER ON AND TIMER OFF BOTH

1. Set timer on time as the corresponding step 1 and 2.
2. Set timer off time as the corresponding step 1 and 2.
3. Timer off time must be longer than timer on time.
4. One-half second after setting, the wired controller sends information to the unit and the timer setting is complete.

CHANGING THE TIMER SETTING

If you need to change the timer settings, press the corresponding buttons to revise the settings. If you need to cancel the timer, change timer time to 0.0.



NOTE

The timer time is relative time; that is, delay after setting time (i.e.: setting time is 8:05 AM). So when timer is set, the standard time cannot be adjusted.

8. TECHNICAL INDICATION AND REQUIREMENT

EMC and EMI comply with the CE certification requirements.



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