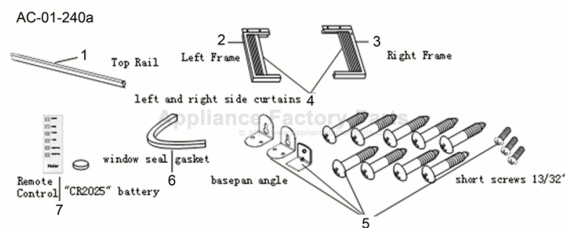


This Owner's Manual is provided and hosted by [Appliance Factory Parts](#).



# Haier ESA410J-T Owner's Manual

[Shop genuine replacement parts for Haier ESA410J-T](#)



[Find Your Haier Air Conditioner Parts - Select From 735 Models](#)

----- Manual continues below part list -----

## Available Replacement Parts for Haier ESA410J-T

<a href="#">AC-5211-15</a>	Partition - Bottom
<a href="#">AC-5211-16</a>	Partition - Middle
<a href="#">AC-5620-66</a>	Remote-control
<a href="#">WJ82X20077</a>	Keypad
<a href="#">WJ85X23968</a>	USE NLA ITEM FILTER
<a href="#">WJ86X23762</a>	SCREEN - ACCORDIAN

# Haier SERVICE MANUAL

Order No.AC0907S005V0

## Model No. ESA410J



### ● Feature

- Top Discharge Airflow Pattern
- Modern Family-look Design
- 3 Cool Settings, 3 Fan Settings
- Easy-to-ins tall Mounting Kit
- Easy-Access Washable Filter
- Digital Time & Temperature Display
- 24 Hour on/off Timer

### ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death

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## Haier Group

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# 1. Product Code Illumination and Series Introduction

## 1). Model identification:

$\frac{\text{ESA}}{\text{A}}$      $\frac{\square}{\text{B}}$      $\frac{\square\square}{\text{C}}$      $\frac{\square}{\text{D}}$

A: Abbreviation of Energy Star

B: The type of refrigerant

4:R410A

C: Nominal cooling capacity (BTU/h) with the first two numbers based on one thousand unit

D: Design code

Examples:

ESA410J

It represents remote control window air conditioner. Cooling capacity is 10000BTU/h and the power supply is 115V/60Hz.

## 2). Standard situation/conditions

No.	Operating condition	Indoor air state		outdoor air state	
		D.B. °C	W.B. °C	D.B. °C	W.B. °C
1	Nominal cooling	26.7	19.4	35	23.9

## 2. Specification

Item		Unit	ESA410J
Cooling capacity		BTU/h	10000
Heating capacity		BTU/h	/
Power supply		Ph,V, Hz	1, 115, 60
Cooling	Power input	W	920
	Running current	A	8.5
	EER	BTU/(h.w)	10.8
Heating	Power input	W	/
	Running current	A	/
	COP	BTU/(h.w)	/
Sound Level	Indoor side	dB(A)	54
	Outdoor side	dB(A)	60
Case	Height	inches	14 3/8
	Width	inches	19
	Depth	inches	18 1/8
Packaging dimensions	Height	inches	17
	Width	inches	21 1/4
	Depth	inches	22
Weight	Net	lbs	60.9
	Gross	lbs	68.4
Compressor	Type		Rotary
	Model	/	44A221AG&09KC
	Running cap. For comp	μF	60μF/250V
Pressure	Hi-Pressure	Psig	570
	Low-Pressure	Psig	240
Refrigerant	Model	R22 or R410A	R410A
	Charge	OZ	25.4
Fan	Type	Indoor unit	/
		Outdoor unit	/
	Fan Speed	Indoor unit	r/min
Air volume		CFM	270/250/220
Moisture removal		Pints/hr	3.0

### 3. Safety and Precaution



**WARNING:** Following these basic precautions will reduce the risk of fire ,electrical shock ,injury or death when using your air conditioner .

1) Air conditioner must be connected to proper electrical outlet with the correct electrical supply .



2) Proper grounding must be ensured to reduce the risk of shock and fire .

**DO NOT CUT OR REMOVE THE GROUNDING PRONG.**

If you do not have a three-prong electric receptacle outlet in the wall, have a certified electrician install the proper receptacle . The wall receptacle **MUST** be properly grounded .



3) **DO not** use if power cord is frayed or damage . Also avoid using if there are cracks or abrasion damage along the length ,plug or connector .



4)**DO NOT USE AN ADAPTER OR AN EXTENSION CORD.**



5)When installing your air conditioner in a window,make sure the window is strong enough to hold the weight of the air conditioner.You also want to secure and correctly install your air conditioner properly to prevent it from falling.Extra brackets or support may be required depending on your window.

6) Do not block airflow inside or outside the air conditioner with blinds,drapes,protective covers,shrubs or bushes.

7)Be careful of sharp edges on the front and rear fins of the unit that could cut and cause serious injury.

8)Be careful when lifting the air conditioner to install or remove the unit . Always use two or more people for this .

9)Always unplug the air conditioner before servicing it or moving it .

## 4.Warning and Cautions

**WARNINGS:** Following the safety messages is very important.



These messages can save you from being injured or killed. Warning symbols alert you to be careful and means Danger . Always follow instructions to be safe and reduce chances of injury or death . Warning and Danger signs will precede safety messages.

### Electrical Safety

**GROUNDING:** This room air conditioner must be grounded. Grounding reduces the risk of electric shock by providing an escape wire for the electric current. The power cord has a grounding wire with a grounding plug . Plug it into an outlet that is properly installed and grounded.



**WARNING:** Improper use of the grounding plug can result in a risk of electric shock. Call a qualified electrician if you don't understand the grounding instructions or if you are not sure if the air conditioner is properly grounded. If the wall outlet is not grounded, please contact an electrician to have it replaced with a proper grounded outlet.



**Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.**

**Adapter Plug:** We strongly advise against using an adapter plug.

## 5. Installation and Accessory Parts

Check the following before you install your air conditioner:

- 1) The unit is free of all obstructions inside and outside the room e.g. drapes, curtains, furniture, plants, shrubs, bushes, trees, other structures like building, garage etc.  
Air conditioner must have clear unobstructed airflow through the condenser to remove the heat.
- 2) The window is strong enough to hold the weight of the air conditioner. Extra brackets or supports may be needed depending on your windows. Brackets or supports not provided in all models.
- 3) The window sill and track are strong enough to hold the weight of the air conditioner.
- 4) The wall is strong enough to hold the unit. Extra brackets or supports may be needed depending on the wall. (Brackets or Supports not provided in all models).
- 5) There is adequate and proper power supply near the air conditioner.



6) DO NOT use adapter plugs.



7) DO NOT use extension cords.



8) DO NOT cut or remove the ground prong.



9) DO NOT modify the plug or the electrical wall outlet in any way. If plug does not fit the electrical outlet have a certified electrician do the necessary change.



10) NOT connect electrical power to the unit before installation.



11) DO NOT use if power cord is worn out, frayed or damaged. Avoid using if there are cracks or abrasion damage along the length, plug or connection.



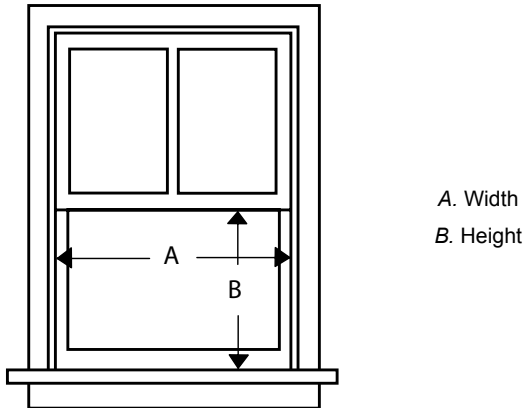
12) DO NOT install into any existing cabinet or sleeve which does not have side and top air vents.



13) Be careful of exposed sharp edges of the cabinet and sharp coils (fins) on the back of the unit that could cut and cause serious injury.

## Window Installation

Window opening measurements:



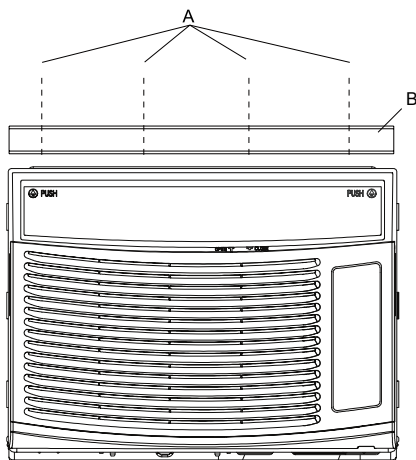
MODEL	ESA406J	ESA410J
Dimension		
A(inch) Min	25"(63.5cm)	24 1/2"(62.2cm)
A(inch) Max	36"(91.4cm)	38"(96.5cm)
B(inch) Max	13 3/8 "(34cm)	149/16"(37cm)

## Prepare Air Conditioner for Installation

### Install Top Channel

1. Place the top channel on the top of the air conditioner, lining up the holes in the top channel with the holes in the top of the air conditioner.
2. Using four<sup>13/32"</sup> screws, attach the top channel to the air conditioner.  
(For model ESA406J, three<sup>13/32"</sup> screws is needed to attach the top channel to the air conditioner.)

**NOTE:**Your model may differ from the one shown.

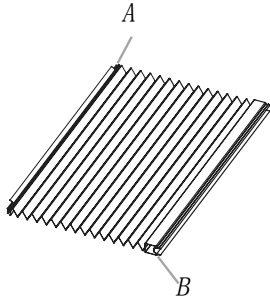


A. <sup>13/32"</sup> screws  
B. Top channel

## Install Side Curtains

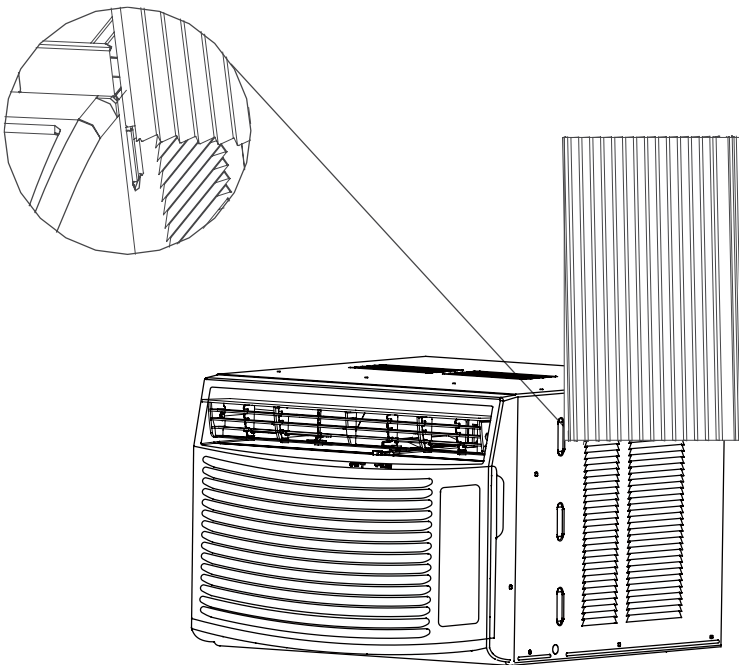
NOTE: Attach curtains to the air conditioner before placing the air conditioner in window.

1. Place the tabbed side of the side curtain in the track on the right-hand side of the air conditioner cabinet.

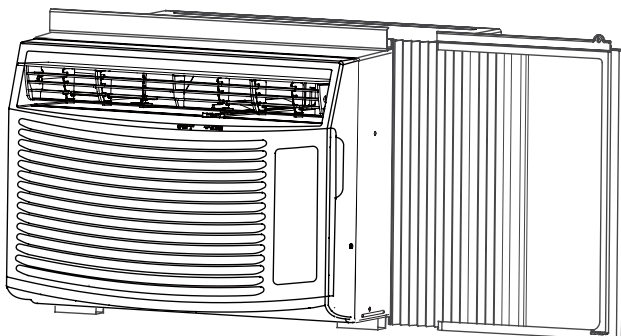


A. Tabbed side of side curtain  
B. Lock edge side of side curtain

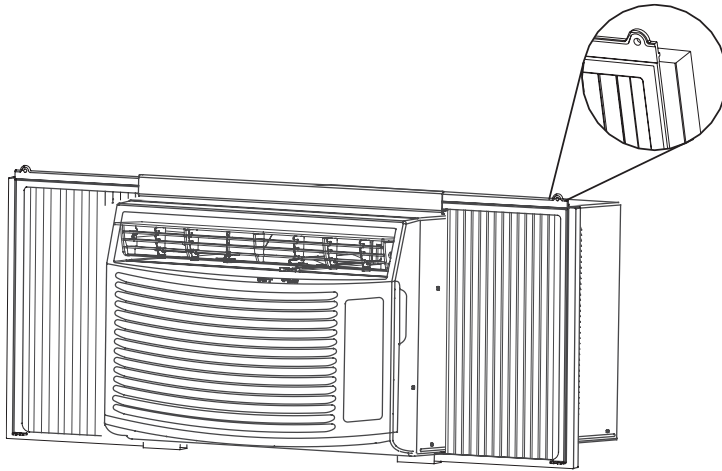
2. Slide the side curtain down the track until the curtain is aligned with the top and bottom of the air conditioner cabinet.



3. Slide the side curtain frame into the top channel on the top of the air conditioner and the track on the bottom of the air conditioner.

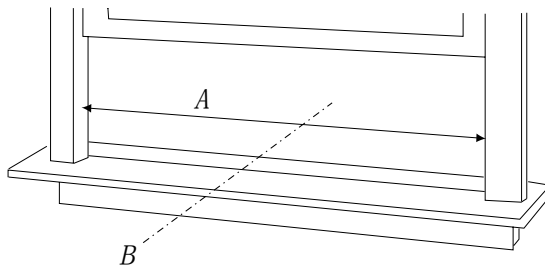


4. Slide the side curtain frame as close to the air conditioner as necessary to lock the side curtain to the frame.
5. Repeat above steps for the left-hand side curtain and frame.



### Prepare Window for Installation

1. Measure the width of the window opening.
2. Mark the center line on the inside windowsill.



A. Width of window opening  
B. Center line

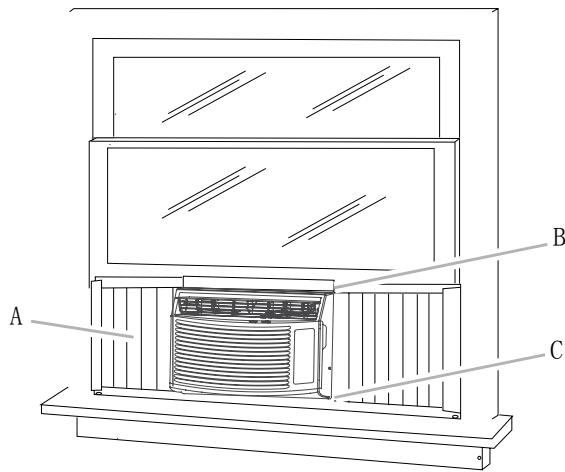
### Position Air Conditioner

#### NOTES:

- Handle the air conditioner gently.
- Be sure your air conditioner does not fall out of the opening during installation or removal.
- The place where the power cord exits the air conditioner be no more than 4 ft (122 cm) from a grounded outlet.  
(For model ESA406J, electrical outlet can be grounded within 6 ft (183 cm) )
- Do not block the louvers in the front panel.
- Do not block the louvers on the outside of the air conditioner.

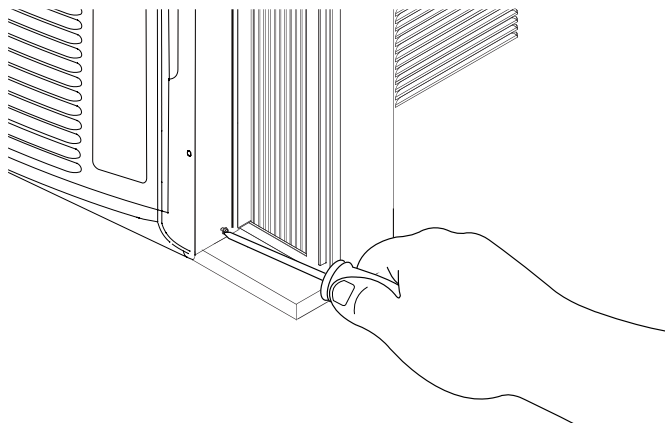
1.Center the air conditioner in the window. Lower the window sash behind the top channel to hold the cabinet in place

NOTE:Your model may differ from the one shown.

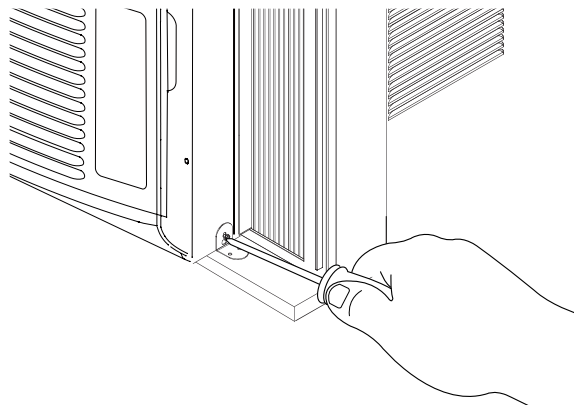


- A. Side curtain against window channel*
- B. Window sash behind top channel*
- C. Bottom channel in behind windowsill*

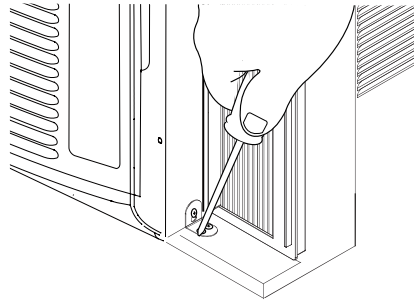
2. Loosen the screw on the right-hand side of the air conditioner cabinet near the bottom.



3. Slide the side bracket over the screw.
4. Tighten the screw. The side bracket should be resting on the windowsill.



5. Use  $\frac{1}{8}$ " drill bit to drill a starter hole through the holes in the side bracket and windowsill.
6. Using two  $\frac{3}{32}$ " screws, attach the side bracket to the windowsill.

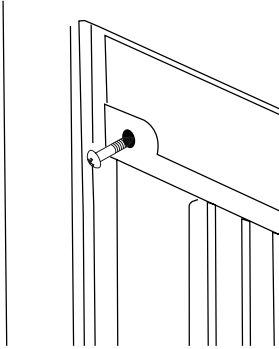


7. Repeat for side bracket installation on the left-hand side of the air conditioner.

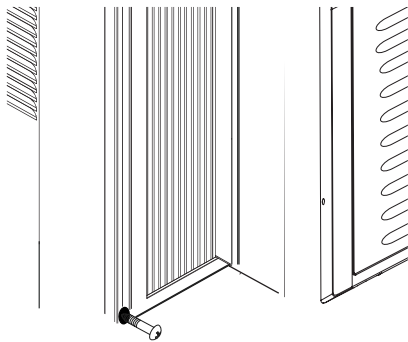
### Attach Side Curtains to Window

1. Pull the left-hand curtain out until it fits into the window channel.
2. Use a  $\frac{1}{8}$ " drill bit to drill a starter hole through the top hole in the side curtain and into the window sash.
3. Insert one of the  $\frac{3}{32}$ " screws through the top hole of the left-hand curtain and into the window sash.
4. Repeat for the right-hand curtain.
5. Use a  $\frac{1}{8}$ " drill bit to drill a starter hole through the bottom hole in the side curtain and into the window frame.
6. Insert one of the  $\frac{3}{32}$ " screws through the bottom hole of the left-hand curtain and into the window frame.
7. Repeat for the right-hand curtain.

Top View

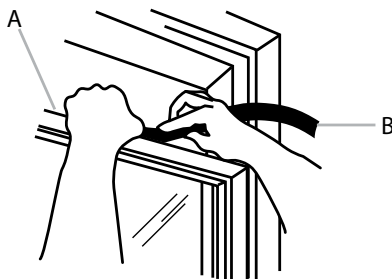


Bottom View



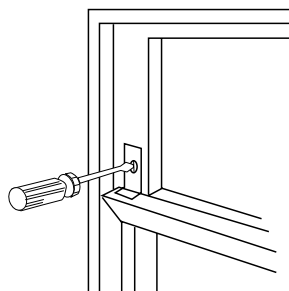
## Complete Installation

1. Insert the foam seal behind the top of the lower window sash and against the glass of the upper window.



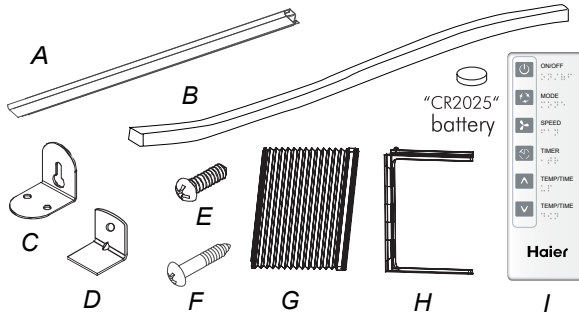
A. Top of lower window sash  
B. Foam seal

2. Place the window lock bracket as shown. Use a  $\frac{1}{8}$ " drill bit to drill a starter hole through the hole in the window lock bracket and into the upper window.
3. Attach the window lock bracket to the upper window with one  $\frac{3}{32}$ " screw to secure the window in place.
4. Plug into a grounded 3 prong outlet.
5. Press RESET on the power supply cord. See "Electrical Requirements."



## Parts

Check that all parts are included in parts package.



- |                       |                            |
|-----------------------|----------------------------|
| A. Top channel        | ESA406J,ESA406J-L(3)       |
| B. Foam seal          | ESA406J-T,ESA408J-T(3)     |
| C. Side brackets (2)  |                            |
| D.Window lock bracket | F. 3/32 " screws (9)       |
| E. 1/32 " screws :    | G. Side curtains (2)       |
| ESA410J,ESA410J-L(4)  | H. Side curtain frames (2) |
| ESA410J-T(4)          | I. Remote control          |

## Tools

- Phillips head screwdriver
- Flat-blade screwdriver
- Scissors
- Level
- Socket wrench and sockets
- Tape measure
- Cordless drill and 1/8" bit
- Pencil
- Pliers
- Adjustable wrench

## 6.Partd and Functions

### Mode

1. Press MODE until you see the indicator light glow for the desired setting.
2. Choose Fan, Cool, Energy Saver or Dehum.
  - Fan—Only the fan runs. Press SPEED to select High, Med or Low fan speed. The display shows the current room temperature.
  - Cool—Cools the room. Press SPEED to select High, Med or Low fan speed. Press the TEMP/TIME up or down arrow button to adjust the temperature.
  - Energy Saver—Fan runs only when cooling is needed. Press SPEED to select High, Med or Low fan speed. Because the fan does not circulate the room air continuously, less energy is used, but the room air is not circulated as often.
  - Dehum—Dries the room. The air conditioner automatically selects the temperature. Fan runs on Low speed only.

NOTE:Dehum mode should not be used to cool the room.

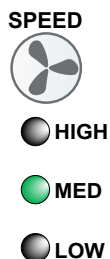


NOTE: After 5 seconds, display will show the current room temperature.

### Fan Speed

NOTE:In Dehum mode, the Speed button will not operate.

1. Press FAN SPEED until you see the indicator light glow for the desired setting.
2. Choose High, Med or Low.
  - High—for maximum cooling
  - Med—for normal cooling
  - Low—for minimum cooling



NOTE:After 5 seconds, the display will show the current room temperature.

### Temperature

- Press the TEMP/TIME up arrow button to raise the temperature. Each time you press or hold the TEMP/TIME up arrow button, the temperature will go up 1°F until it reaches 86°F (30°C).

NOTE:After 5 seconds, the display will show the current room temperature.



- Press the TEMP/TIME down arrow button to lower the temperature. Each time you press or hold the TEMP/TIME down arrow button, the temperature will go down 1°F until it reaches 61°F (16°C).

NOTE:After 5 seconds, the display will show the current room temperature.

### Timer Delay

To set the Timer for a 1-hour to 24-hour delay until the air conditioner turns off (the air conditioner must be On):

1. Press TIMER. Timer On indicator light will flash. Display will show remaining hours before the air conditioner will turn off.



2. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
3. After 5 seconds, Timer On indicator light will remain on. Display will show the current room temperature.

To set the Timer to turn on the air conditioner, keeping previous settings:

1. Turn on the air conditioner.
2. Press TIMER. Timer On indicator light will flash. Display will show remaining hours before the air conditioner will turn on.
3. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
4. After 5 seconds, Timer On indicator light will remain on. Display will show the current room temperature.

To set the Timer to turn on the air conditioner, changing the previous settings:

1. Turn on the air conditioner.
2. Adjust the mode to Fan, Cool, Energy Saver or Dehum.
3. For Fan, Cool or Energy Saver mode, adjust the fan speed to High, Med or Low.

NOTE]: In Dehum mode, the Speed button will not operate.

4. Adjust the temperature between 61°F and 86°F (16°C and 30°C).

NOTE:In Fan mode, the temperature cannot be set.

5. Wait 3 seconds before turning off the air conditioner.
6. Press TIMER. Timer On indicator light will flash. Display will show remaining hours before the air conditioner will turn on.
7. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
8. After 5 seconds, Timer On indicator light will remain on. Display will show the current room temperature.

To clear Timer delay program:

NOTE:Air conditioner can be either on or off.

1. Press TIMER once after it has been programmed. Display will show remaining time.
2. While the display is showing the remaining time, press TIMER again. Timer Off indicator light will turn on.

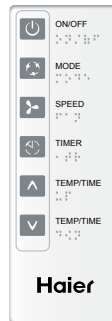
To see or change the remaining time (in hours):

1. Press TIMER once after it has been programmed. Display will show remaining time.

- While the display is showing the remaining time, press the up or down TEMP/TIME button to increase or decrease the time.
- After 5 seconds, the display will show the current room temperature.

## Using the Remote Control

NOTE:Remote control may differ in appearance.



NOTE:One CR2025 battery (included) powers the remote control. Replace battery after 6 months of use, or when the remote control starts to lose power.

### Power

Press ON/OFF to turn on the air conditioner.



### Mode

Press MODE to choose Fan, Cool, Energy Saver or Dehum.



### Speed

Press SPEED to choose High, Med or Low.



### Temperature

- Press the TEMP/TIME up arrow button to raise the temperature. Each time you press or hold the TEMP/TIME up arrow button, the temperature will go up 1°F until it reaches 86°F (30°C).



- Press the TEMP/TIME down arrow button to lower the temperature. Each time you press or hold the TEMP/TIME down arrow button, the temperature will go down 1°F until it reaches 61°F (16°C).



## Timer

To set the Timer for a 1-hour to 24-hour delay before the air conditioner is turned off (the air conditioner must be On):

1. Press TIMER. Timer On indicator light on the air conditioner control panel will flash.



2. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
3. After 5 seconds, Timer On indicator light on the air condition control panel will remain on.

To set Timer to turn on the air conditioner, keeping previous settings:

1. Turn on the air conditioner.
2. Press TIMER. Timer On indicator light on the air conditioner control panel will flash.
3. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
4. After 5 seconds, Timer On indicator light on the air conditioner control panel will remain on.

To set Timer to turn on the air conditioner, changing the previous settings:

1. Turn on the air conditioner.
2. Adjust the mode to Fan, Cool, Energy Saver or Dehum.
3. For Fan, Cool or Energy Saver mode, adjust the fan speed to High, Med or Low.  
NOTE:In Dehum mode, the Speed button will not operate.
4. Adjust the temperature between 61°F and 86°F (16°C and 30°C).  
NOTE:In Fan mode, the temperature cannot be set.
5. Wait 3 seconds before turning off the air conditioner.
6. Press TIMER. Timer On indicator light on the air conditioner control panel will flash. Display will show remaining hours before the air conditioner will turn on.
7. Press the TEMP/TIME up or down arrow button to change the delay time from 1 hour to 24 hours.
8. After 5 seconds, Timer On indicator light on the air conditioner control panel will remain on. Display will show the current room temperature.

To clear Timer delay program:

NOTE:Air conditioner can be either on or off.

1. Press TIMER once after it has been programmed. Display on the air conditioner control panel will show remaining time.
2. While the display is showing the remaining time, press TIMER again. Timer Off indicator light will turn on.

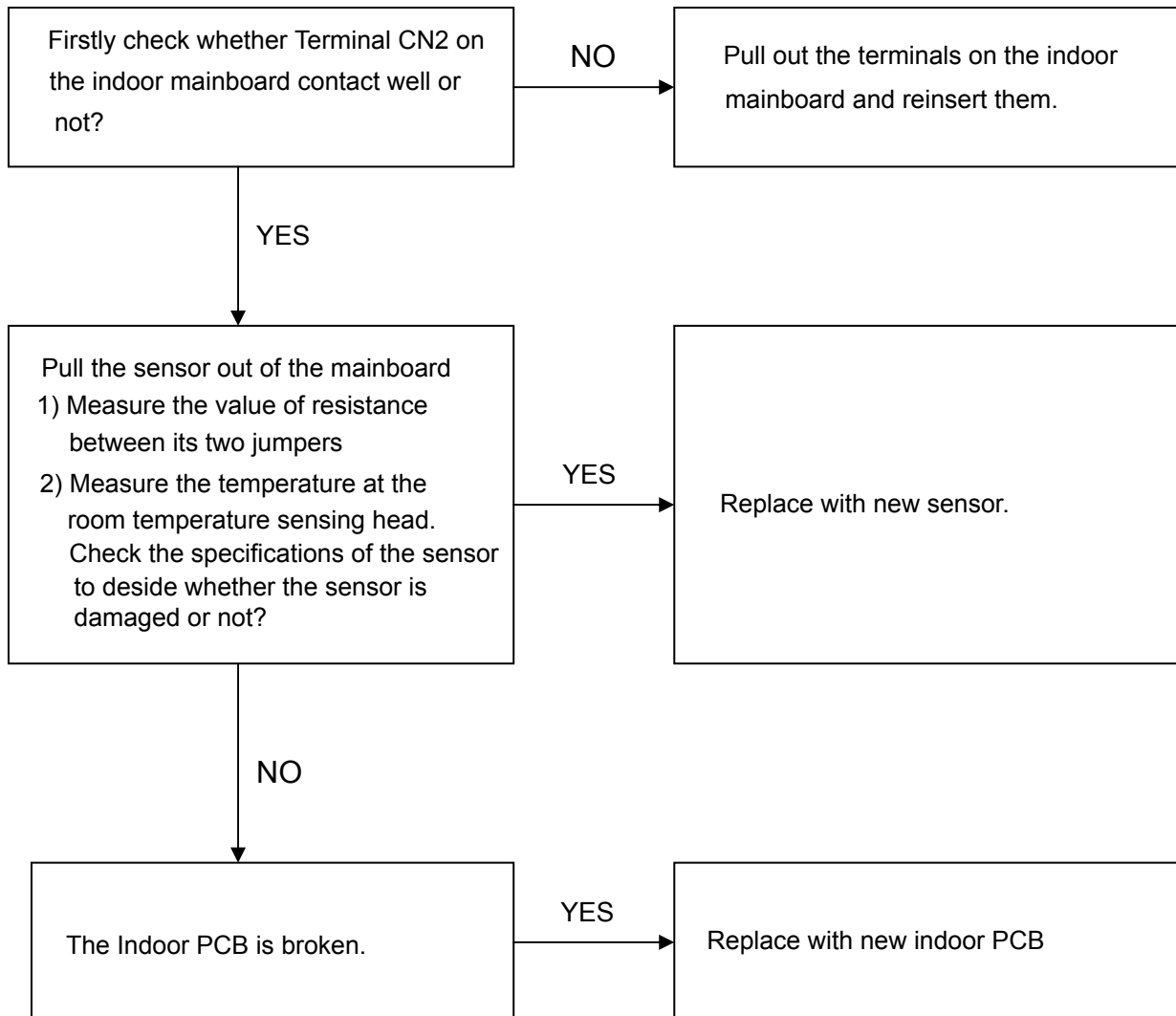
To see or change the remaining time (in hours):

1. Press TIMER once after it has been programmed. Display on the air conditioner control panel will show remaining time.
2. While the display is showing the remaining time, press the TEMP/TIME up or down arrow button to increase or decrease the time.
3. After 5 seconds, the display on the air conditioner control panel will show the current room temperature.

## 7. Abnormity Diagnose

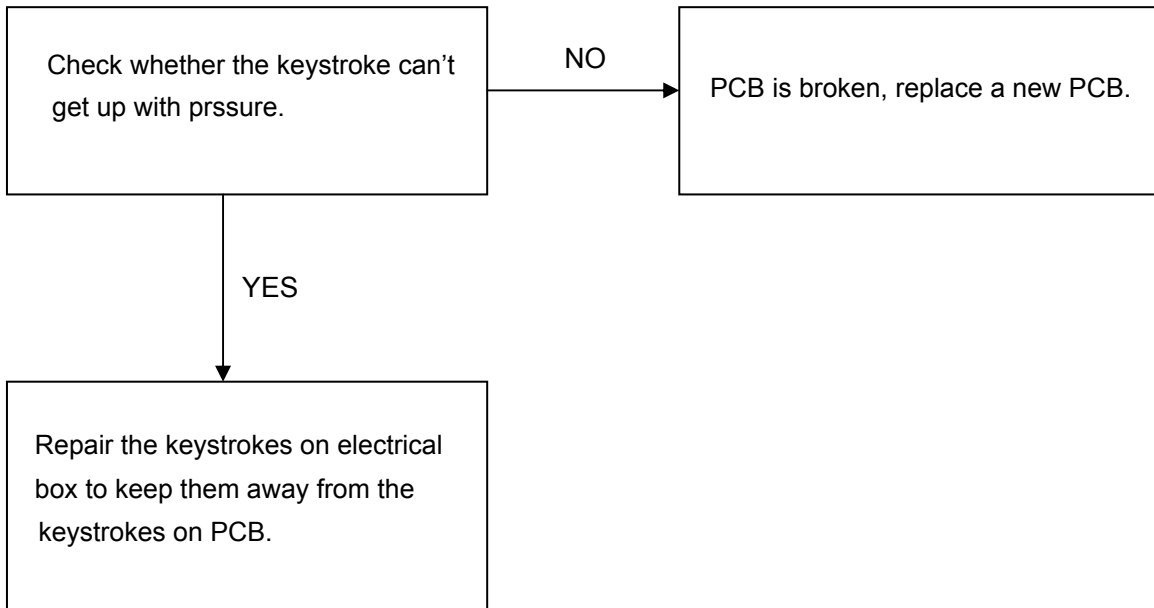
### 1. Sensor Diagnose:

2 seconds after the sensors open circuit or short circuit, the unit will turn off automatically and the LED will show E0 until the sensors resume.

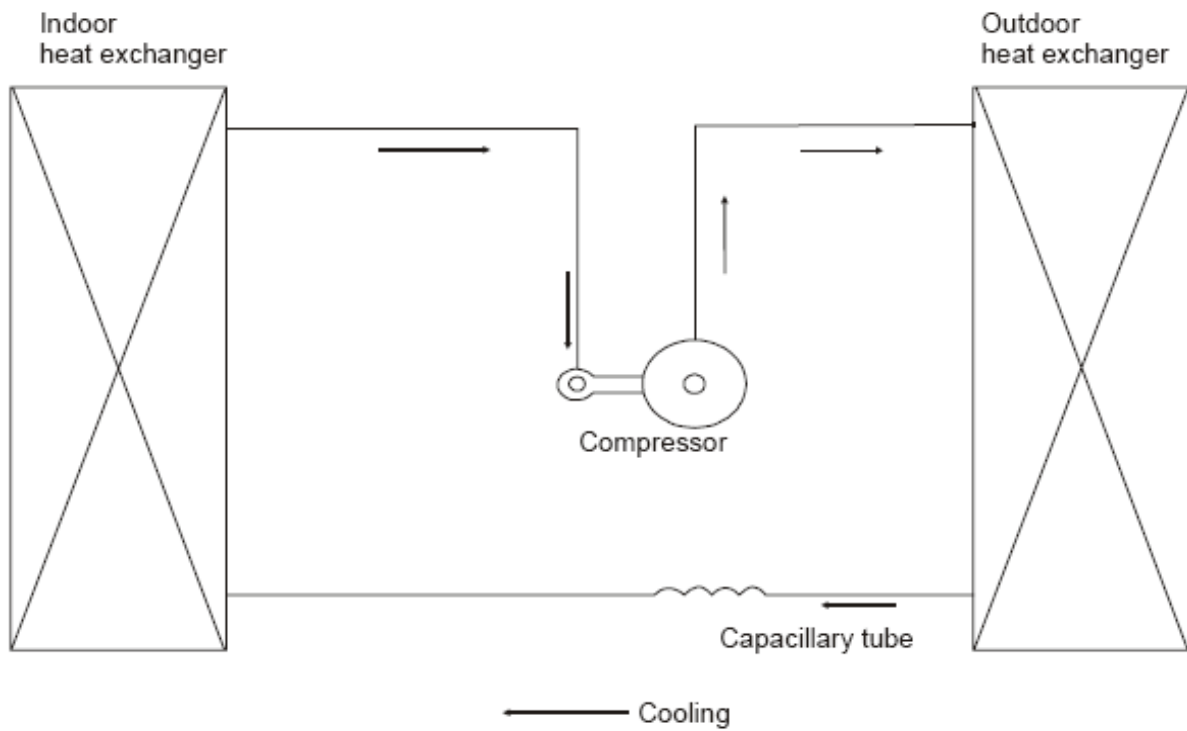


## 2. Keystroke circuit error diagnose:

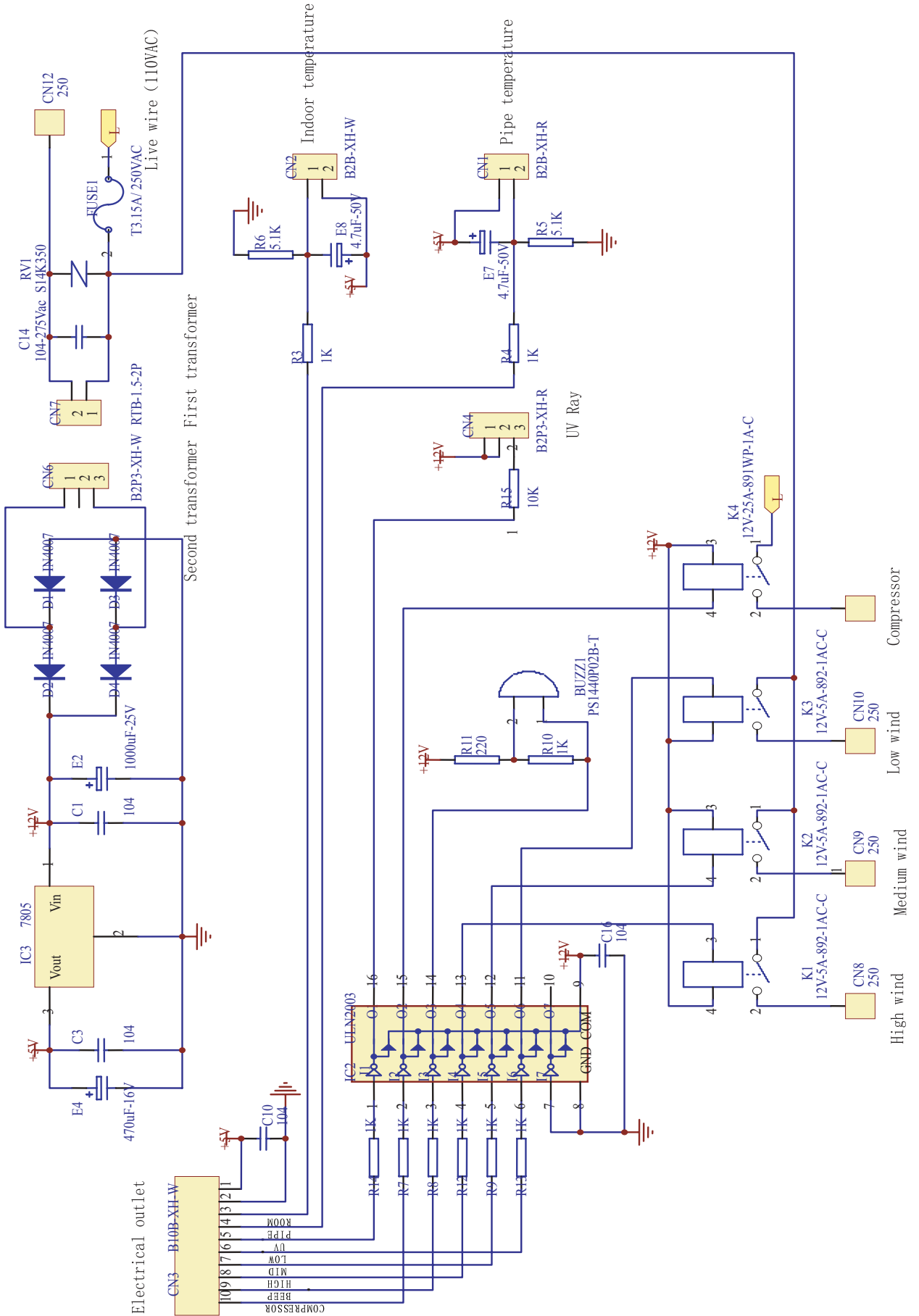
When power on for the first time, the PCB will check the keystroke circuit, is the sampling value is defferent with the theory value, the LED will show E1, which means failed keystroke circuit. The keyboard is locked and so invalid, but the remote control is working normally.



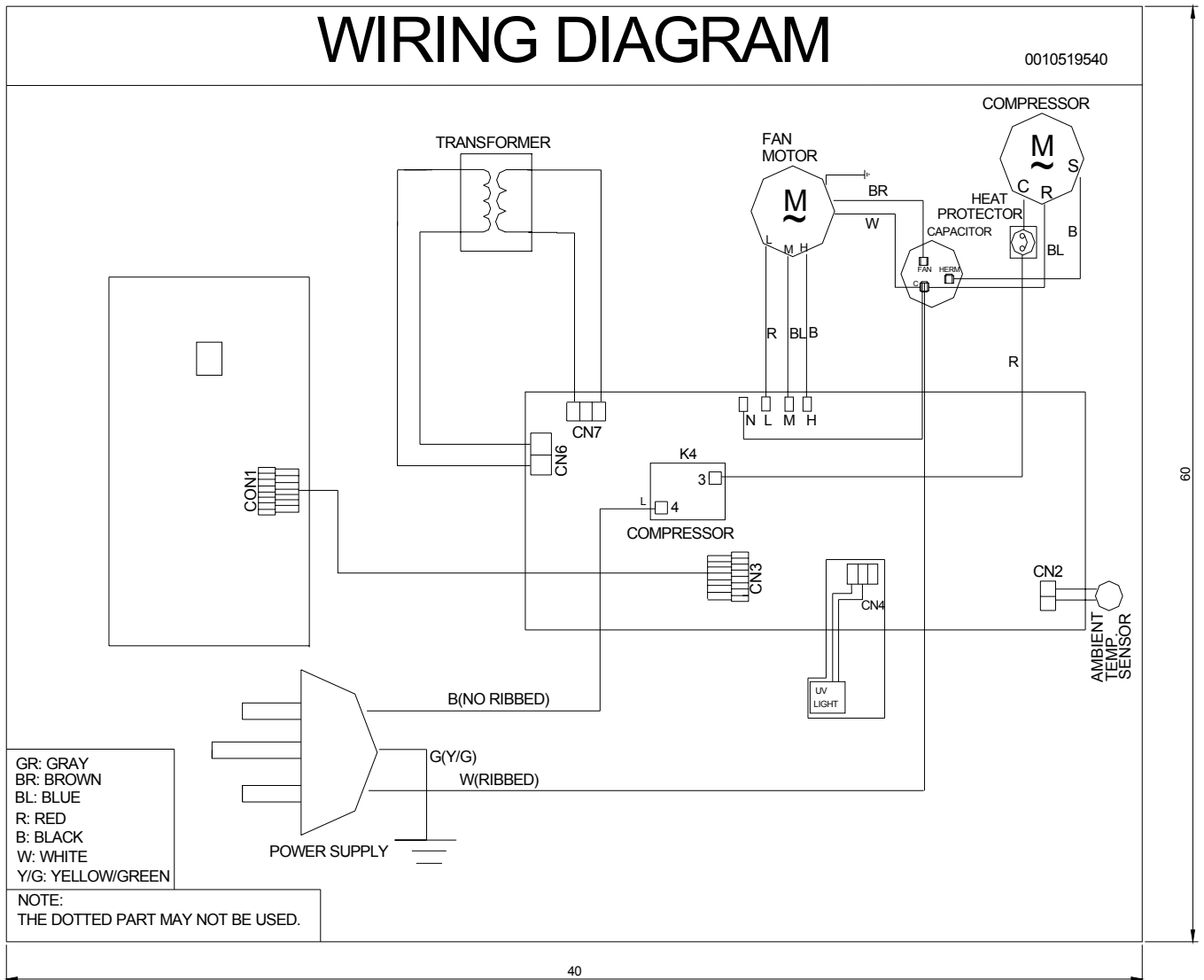
## 8. System Flow Chart







# 10. Wiring Diagram



# Sincere Forever

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---

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