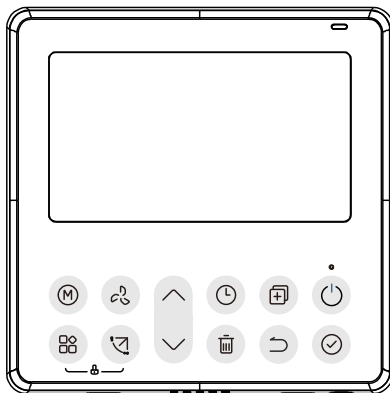


KSACN0902AAA
Wired Remote Controller
7-Day Programmable Thermostat
High Wall Ductless Systems

INSTALLATION MANUAL

NOTE: In order to properly service the wired controller, read this manual carefully prior to operating the unit. Keep this manual after reading for future reference.



NOTE: Images are for illustration purposes only. Actual models may differ slightly.

INSTALLATION MANUAL

TABLE OF CONTENTS

	PAGE
TABLE OF CONTENTS.....	2
COMPATIBILITY	3
SAFETY CONSIDERATIONS.....	4
PREPARATION BEFORE INSTALLATION	6
CONTROLLER INSTALLATION	8
SPECIFICATIONS.....	14

INSTALLATION MANUAL

COMPATIBILITY

This wired controller is compatible with the following R410A Ductless Systems:

Table 1 —Compatibility

Indoor	Tier
High Wall	High
High Wall	Mid
High Wall	Entry
High Wall - Cooling Only	Entry

INSTALLATION MANUAL

SAFETY CONSIDERATIONS

Installing, starting up, and servicing air-conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.). Only trained, qualified installers and service mechanics should install, start-up, and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils.

When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.

Follow all safety codes. Wear safety glasses and work gloves. Keep a quenching cloth and fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.

Read these instructions thoroughly and follow all warnings or cautions included in the literature and attached to the unit. Consult the local building codes and National Electrical Code (NEC) for special requirements. Recognize safety information.

This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety-alert symbol.

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards which could result in personal injury or death. **CAUTION** is used to identify unsafe practices which may result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.



WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before beginning any modification or installation of this kit, ensure the main electrical disconnect is in the **OFF** position. Ensure power is disconnected to the fan coil unit. Some systems both the fan coil and the outdoor unit may be on the same disconnect. Tag the disconnect switch with a suitable warning label. There may be more than one to disconnect.



CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation. Do not install the wired controller in an area subjected to excessive steam, oil or sulfide gas. Doing so may damage the controller and/or cause it to fail.

INSTALLATION MANUAL

PREPARATION BEFORE INSTALLATION

Select Installation Location

Do not install in a location covered with heavy oil, vapor or sulfate gas, otherwise, this product could be deformed, resulting in system malfunction.

1. Confirm that all the following parts have been supplied:

Table 2 — Parts

No.	Name	Qty.	Remarks
1	Wired controller	1	N/A
2	Installation and Owner's Manual	1	N/A
3	Screws	3	M3.9*25 (for mounting on wall)
4	Wall anchors	3	For mounting on wall
5	Screws	2	M4X25 (for mounting on wall)
6	Plastic screw bars	2	For fixing on switch box
7	Connective wire group	1	Optional
8	EMC ferrite core	1	
9	Adapter board (multifunction)	1	Part number 17122000A38610
10	Harness line set 1# (7 wires)	1	Part number 17401204A02537
11	Harness line set 2# (3 wires)	1	Part number 17401204A02754

2. Field supplied:

Table 3 — Field Supplied

No.	Name	Qty (embedded into wall)
1	Gang box	1
2	Conduit, where required (follow local codes)	1

NOTE: 19 ft. (5.7 m) Extension wire available through RCD (Replacement Components) Part Number: 17401204011789.

INSTALLATION MANUAL

Precautions When Installing the Wired Controller

1. This manual provides the installation method of wired controller. Please refer to the wiring diagram in this installation manual to connect the wire controller with indoor unit.
2. The wired controller works in low voltage loop circuit. Do not run control wiring in the same conduit with power wiring or other low voltage wiring.
3. The shielded wire of the wired controller must be grounded firmly.
4. Do not megger the control wiring.
5. Identify the components from left to right (Manuals, Controller, mounting accessories, connection harness, extension harness, *black harness, multifunction board (not pictured), multifunction harness).

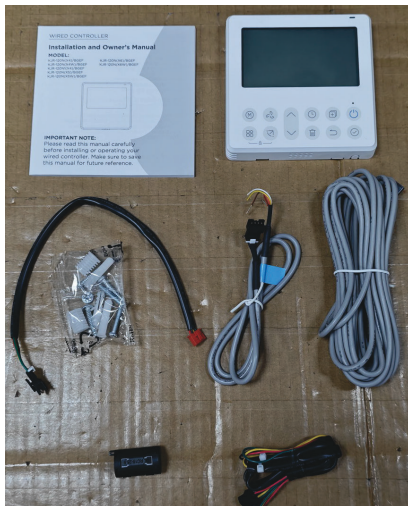


Fig. 1 – Included Components

INSTALLATION MANUAL

CONTROLLER INSTALLATION

1. Wired remote controller structural dimensions

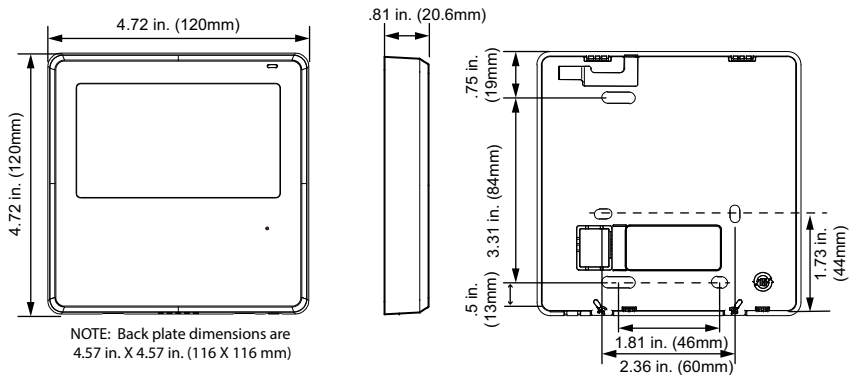


Fig. 2 – Structural Dimensions

INSTALLATION MANUAL

2. Remove the upper part of wired controller

- Insert a slot screwdriver into the slots in the lower part of the wired controller (2 places), and remove the upper part of the wire controller (see Fig. 2).

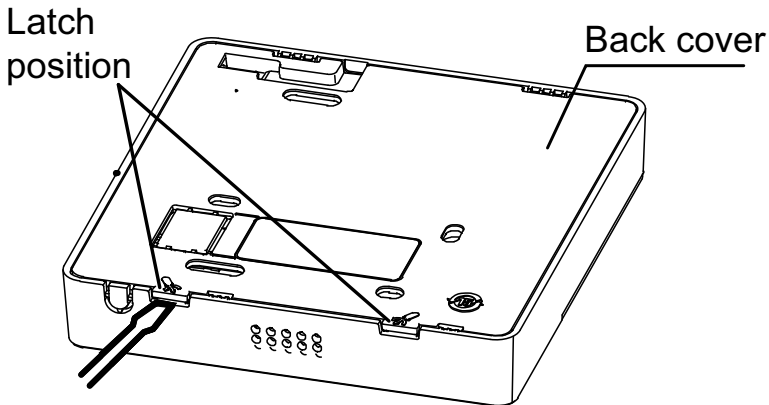


Fig. 3 – Slot Locations on Wired Controller

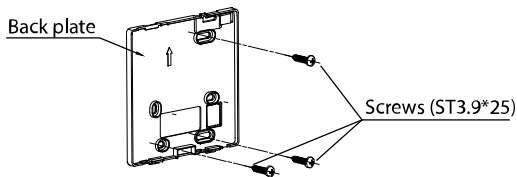
NOTE: Do not pry up and down, only slightly rotate the screwdriver.

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

INSTALLATION MANUAL

3. Fasten the back plate of the wired controller

- For exposed mounting, fasten the back plate on the wall with the 3 screws (ST3.9*25) and plugs (see Fig. 3).



Use two M4X25 screws to install the back cover on the 86 switch box, and use one ST3.9*25 screw to fix to the wall.

Fig. 4 – Fasten Back Plate on Wall

- Use Use two M4X25 screws to install the back cover on the 86 switch box and use one ST3.9*25 screw to fix to the wall (see Fig. 4).

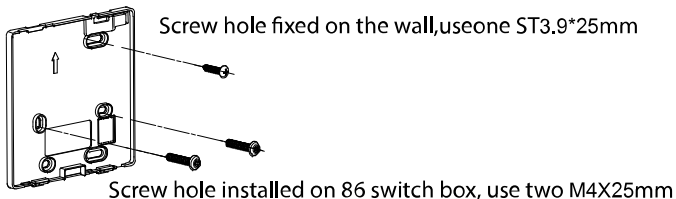


Fig. 5 – Install Back Cover

INSTALLATION MANUAL

4. Wire with the Indoor Unit

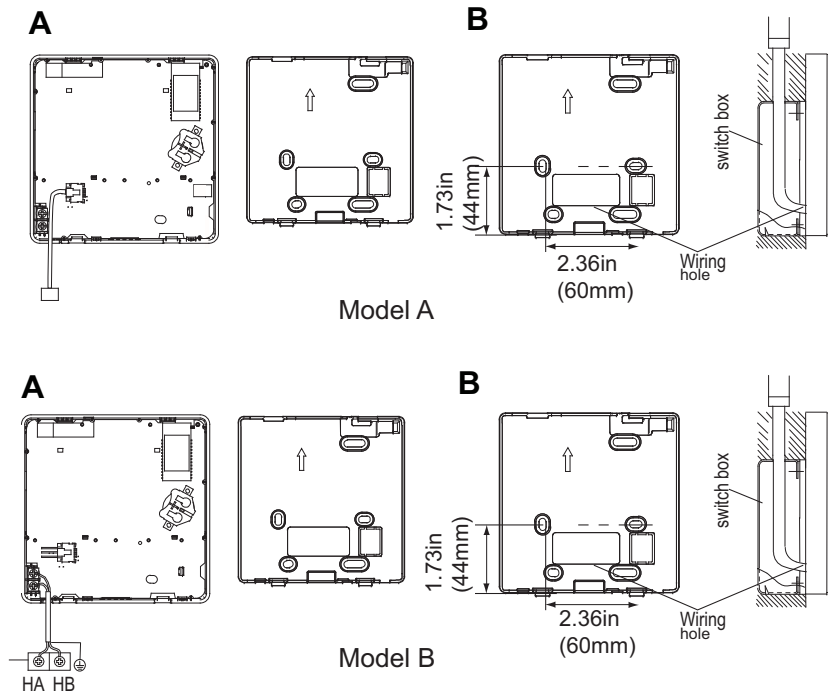


Fig. 6 – Wire with Indoor Unit

INSTALLATION MANUAL

Option A

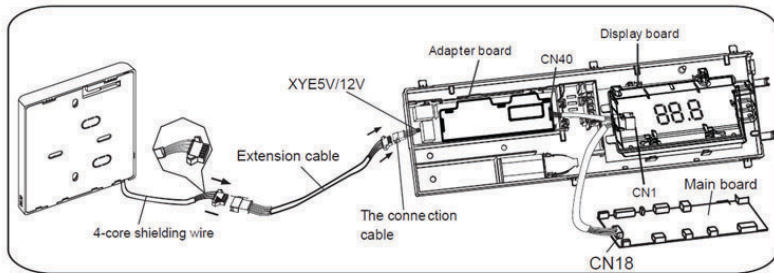


Fig. 7 – Connection to units with XYE terminals on the multi function board

1. Install the Multifunction (Adapter) board **ONLY** on the High Wall 40MAHB/619AHB/DHMAHB units.
2. Remove the existing harness connecting the display and main boards and discard.
3. Connect the 3-pin plug to the multifunction board. The 4-pin and 7-pin plugs should remain at the other end.
4. Connect the harness with 4 stripped leads to the 4-wire screw terminal block.
5. From the Multifunction board, connect the 7-pin plug to the Display board and the 4-pin plug to the main board.
6. Next, connect the other end to the extension cable provided.
7. Connect the female plug of the extension cable to the controller male plug.

INSTALLATION MANUAL

8. Reattach the top panel of the wired controller

IMPORTANT: Avoid clamping wiring when reattaching the top panel.

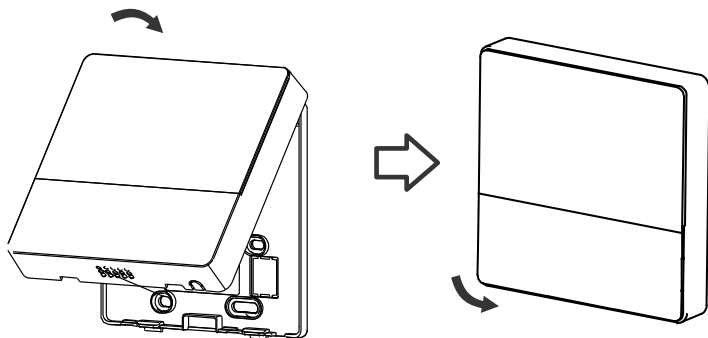


Fig. 8 – Reattach Upper Part of Wired Controller

NOTE: All the pictures in this manual are for explanation purpose only. Your wired controller may be slightly different.

INSTALLATION MANUAL

SPECIFICATIONS

Input Voltage	5V
Ambient Temperature	32~110°F (0~43°C)
Ambient Humidity	RH40%~RH90%

Wiring Specifications

NOTE: Use connective extension wire of 19 ft. (5.7 m) length. The maximum wire length for this controller is 66 ft. (20.1 m).