AIR CONDITIONER
OPTIONAL PARTS
External connect kit

INSTALLATION MANUAL

For authorized service personnel only.

English | Français | Español

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1. SAFETY PRECAUTIONS

⚠WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

- When installing each wire, please thoroughly read this manual.
- Before installation be sure that all sources of power have been shut off. There is a danger of electric shock.
- For External connect kit and locally purchased parts, apply voltage indicated on specifications of parts. Application of unspecified voltage may result failure or malfunction of air conditioner.

⚠CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

- Do not pull on the connectors with too much force.

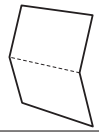
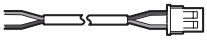
2. ABOUT THE UNIT

2.1. General

- This external connect kit is an adapter for connecting the control PC board and the connected unit (local wiring) in order to use external input function and external output function of the outdoor unit.

2.2. Accessories

- The following installation parts are supplied. Use them as required.

Name and shape	Q'ty	Description
Installation manual 	1	This manual
Binder 	2	For fixing the wires.
Wire 	1	For connecting to the circuit for external input and external output

3. SETTING

- Connect the wire (External connect kit) and Connected unit (local wiring). Refer to the following wiring method.

3.1. Control input setting

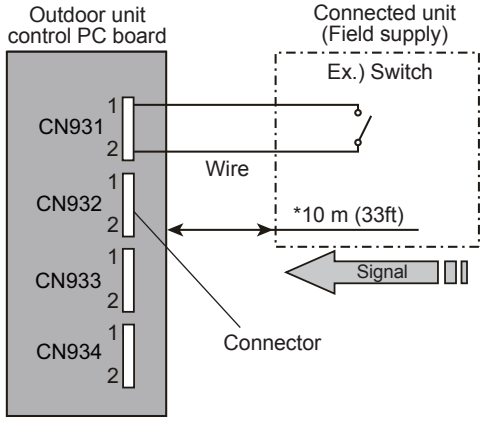
3.1.1 Wiring of connector

Input	Connector
Low noise mode	CN931
External input priority mode	CN932
Peak cut mode	CN933
Stop operation mode	CN934

* Make the distance from the PC board to the connected unit within 10m (33ft).

- Contact capacity : 24VDC or more, 10mA or more.

Circuit diagram example



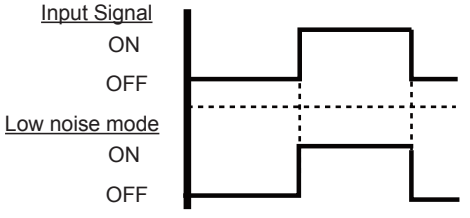
3.1.2 Low noise mode (CN931)

- This features reduces the operating sound of the outdoor unit from the normal sound. The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or ON/OFF switch to a connector on the outdoor control PC board.

* Performance may drop depending on the outside air temperature condition, etc.

* Set the “Low noise mode” level. Refer to the installation manual of outdoor unit.

Input Signal ···ON : Low noise mode
···OFF : Normal operation

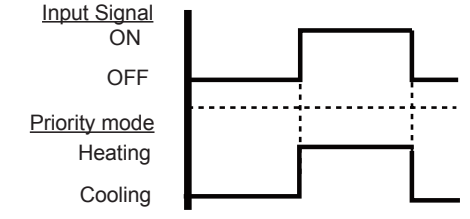


3.1.3 External input priority mode (CN932)

- It is possible to switch to cooling operation and heating operation by using external input.

* Set the “External input priority mode”. Refer to the installation manual of outdoor unit.

Input Signal ···ON : Heating operation
···OFF : Cooling operation

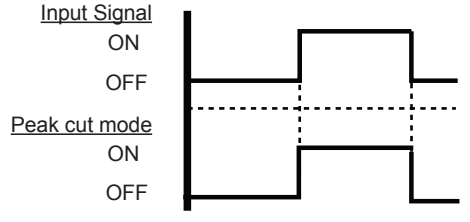


3.1.4 Peak cut mode (CN933)

- Operation that suppressed the current value can be performed by means of the connected unit. The air conditioner is set to the Peak cut mode by applying the contact input of a commercial ON/OFF switch to a connector on the outdoor control PC board.

* Set the “Peak cut mode” level. Refer to the installation manual of outdoor unit.

Input Signal ···OFF : Peak cut mode
···ON : Normal operation



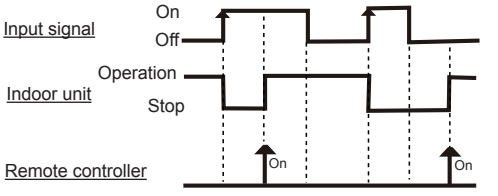
3.1.5 Stop operation mode (CN934)

- It is possible to switch to Batch stop or Emergency stop and Normal operation by using external input.

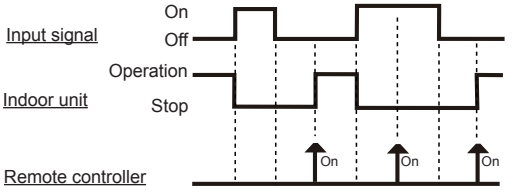
* Set the “Batch stop” or “Emergency stop” pattern. Refer to the installation manual of outdoor unit.

Input Signal ···ON : Stop operation
(Batch stop or Emergency stop)
···OFF : Normal operation

• When function setting is “Batch stop” mode



• When function setting is “Emergency stop” mode



3.2. Control output setting

3.2.1 Wiring of connector

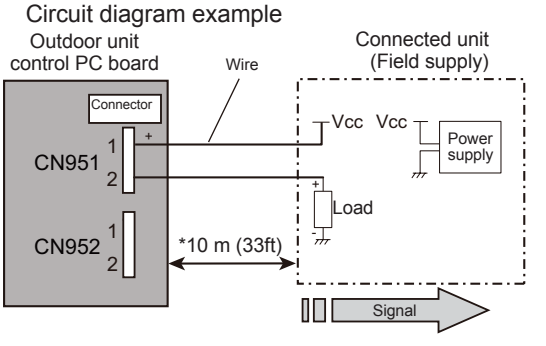
Output	Connector
Error status	CN951
Compressor status	CN952

- Make the distance from the PC board to the connected unit within 10m (33ft).

1) Power supply
   - Voltage (Chart sign=Vcc) : DC 24V or less

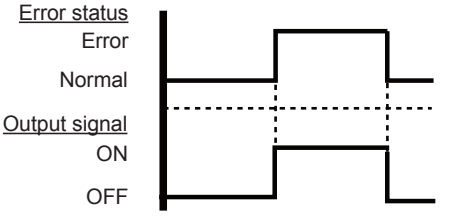
2) Load
   - Load : DC 500mA or less is recommended

Circuit diagram example



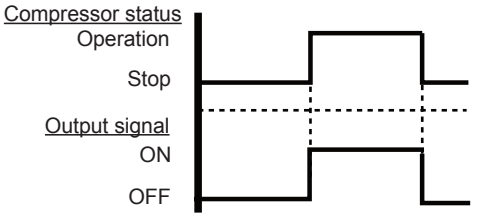
3.2.2 Error status output (CN951)

An air conditioner error status signal is produced when a malfunction occurs.



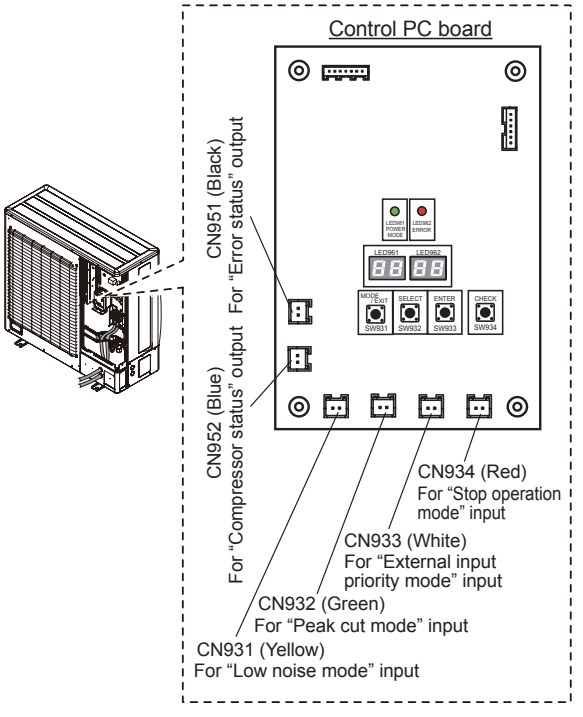
3.2.3 Compressor status output (CN952)

Compressor operation status signal is produced when the compressor is running.



4. CONNECTION METHOD TO OUTDOOR CONTROL PC BOARD

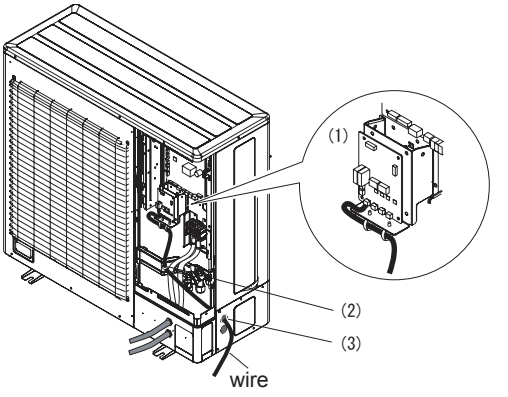
- Refer to below figure for the connection method to outdoor control PC board.
- Connect the end of wire to the external circuit.
  Extend with locally purchased wire if necessary.
  If extended, insulate the connected part.



(Example)

When connecting wire on CN931

(1) When fitting the service cover, pull the cable as shown in the diagram to prevent it from being trapped.
And fix the 2 binders (accessory).
(2) Fix the Binder (accessory (outdoor unit)).
(3) Pass the cable through the as yet unused knockout hole. (Please protect the cable with the edge of knockout hole to avoid damage.)
Seal the knockout hole that passes the cable with putty, so that there is no gap.



⚠CAUTION

- Do not bind this wire with other wires.