

DAIKIN VRV AIR CONDITIONER

Wiring Adaptor for Electrical Appendices (1)

Installation Manual

KRP2A61・62・516・526・53

Accessories			
Check the following accessories are included in the kit before the installation.			
Wiring Adaptor for Electrical Appendices (1)	Relay harness	PCB support	× 4
× 1	(1) × 1 each	Clamp	× 3
	(2)	Installation manual	× 8

- NOTES**
- The kit type (KRP2A61・516 type, KRP2A62・526 type, KRP2A53 type) varies according to air conditioner model.
 - The installation box for adaptor PCB are required with the following air conditioner models.
- | | |
|-----------------------------|-----------|
| FXA (Q) | KRP4AA93 |
| FXFQ | KRP1H98 |
| FXF (Q) ~L・M | KRP1DA98 |
| FXHQ | KRP1D93A |
| FXYH・FXH (Q) ~L・M | KRP1CA93 |
| FXCQ | KRP1C96 |
| FXYC・FXC (Q) ~L・M | KRP1B96 |
| FXZQ・FXD (Q) | KRP1BA101 |

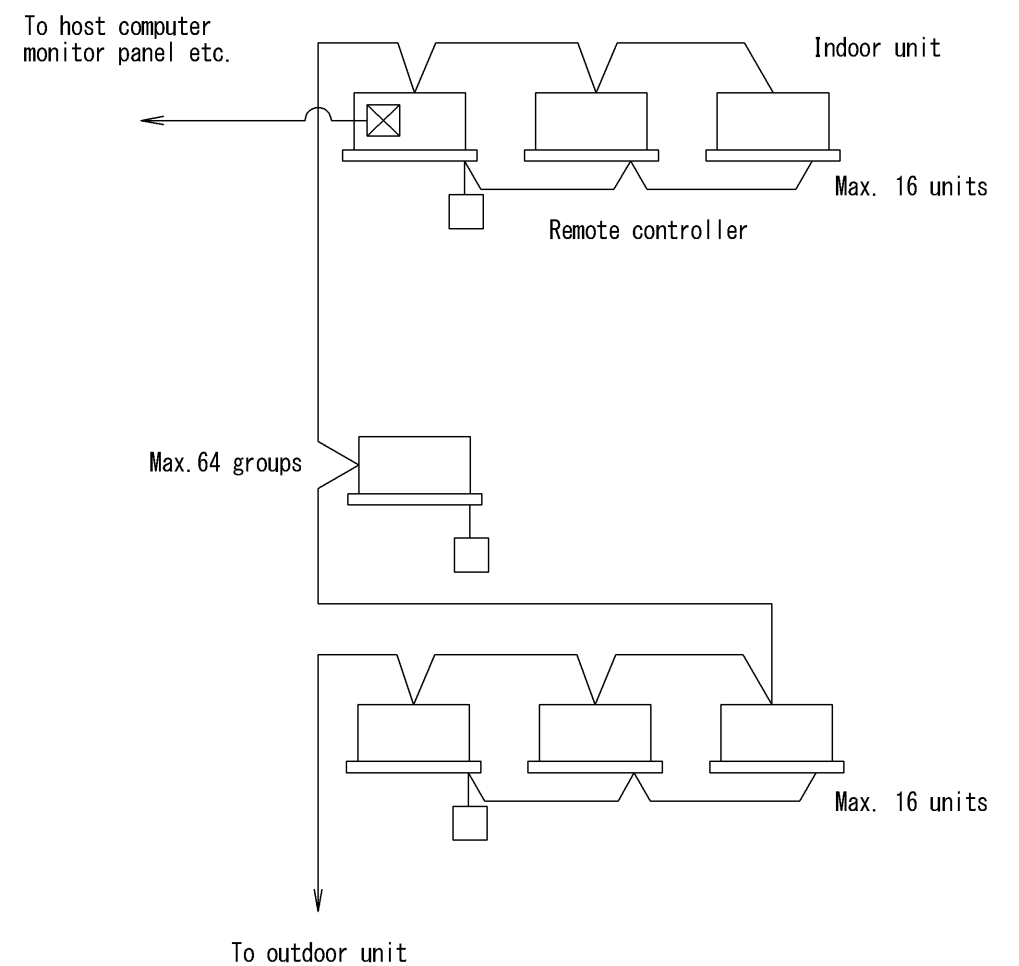
1 General description of system

The KRP2A61・62・516・526・53 enables operation by remote control (ON/OFF control, temperature setting, operation display, error display). With it, the following system can be built. Because this adaptor connects to the DIII-NET, all air conditioners connected to the DIII-NET are controlled as a group and displayed as a group. Note however that the adaptor cannot be used with other optional controllers for centralized control. Also, only 1 of adaptors can be connected to the DIII-NET. (Multiple adaptors cannot be connected.)

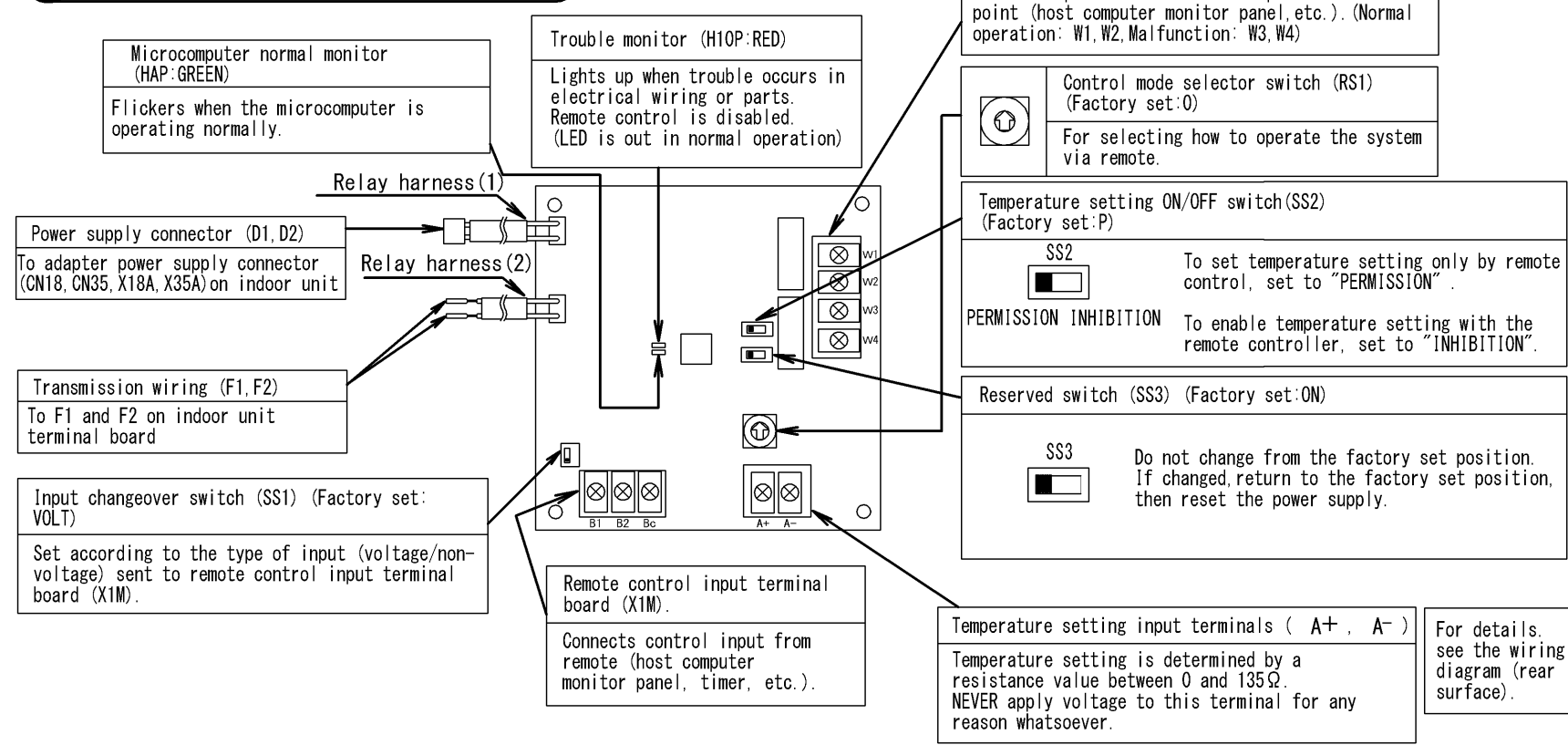
1. System configuration

(Unified control of a max. 64 groups of a max. 16 indoor units each. But, the max. of indoor units is 128.)

- This system requires the following parts.
- Wiring Adaptor for Electrical Appendices (1)
 - ... KRP2A61 (62) or KRP2A516 (526) (53)
 - Remote controller switches (For control)
 - ... BRC1***
 - or BRC2***
 - or BRC3***
- Per group
- (Ex.) Control for 8 FXYC63KVE units (control groups of 4, 3 and 1)
KRP2A516×1 kit
BRC1062 ×3 kit } (1 set required for each group.)

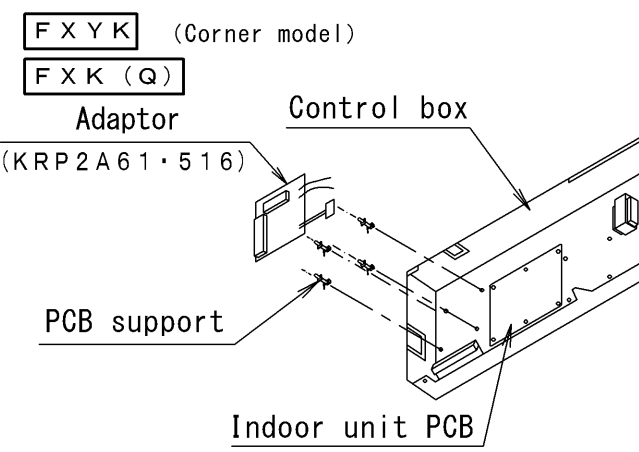


2 Names of parts and functions

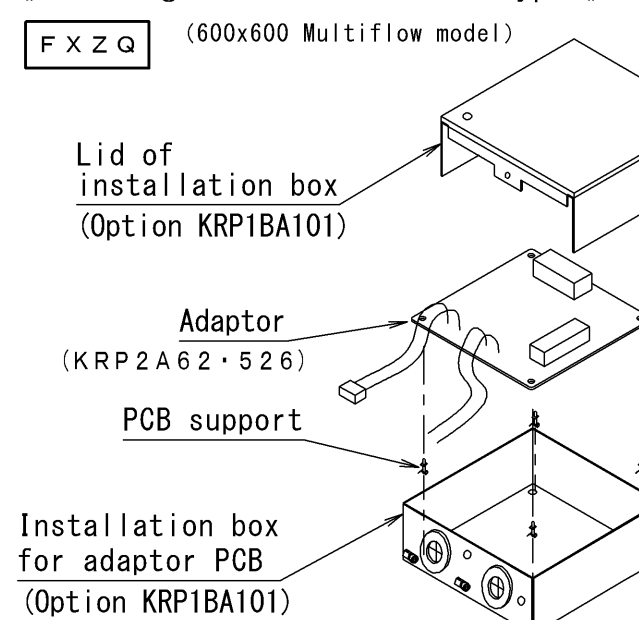


3 Installation

《 Ceiling-mounted cassette type 》

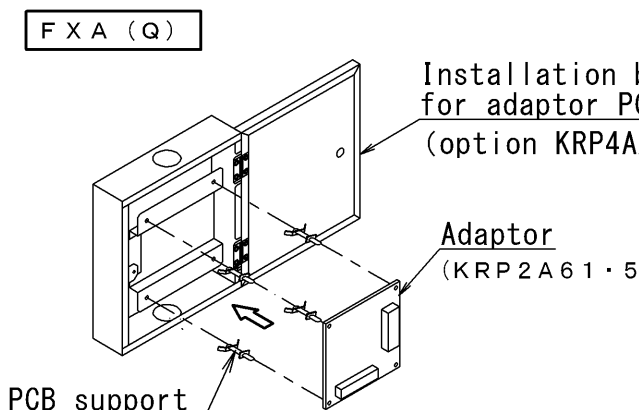


《 Ceiling-mounted cassette type 》

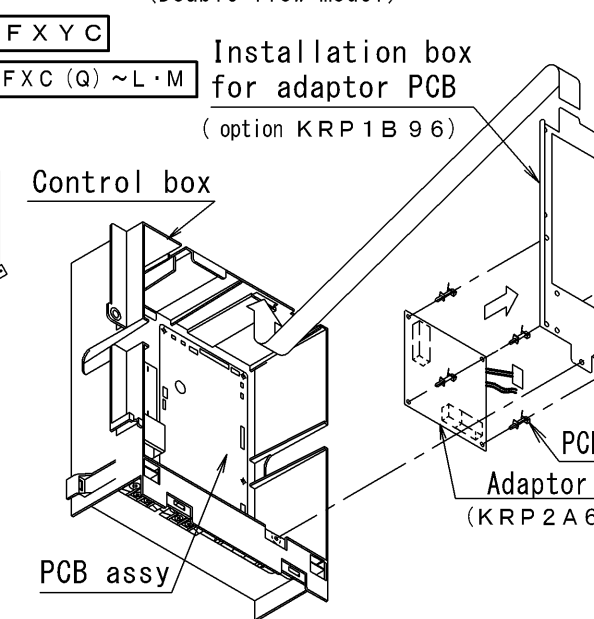


NOTE : Installation box for adaptor PCB is required to install the adaptor.

《 Wall mounted type 》

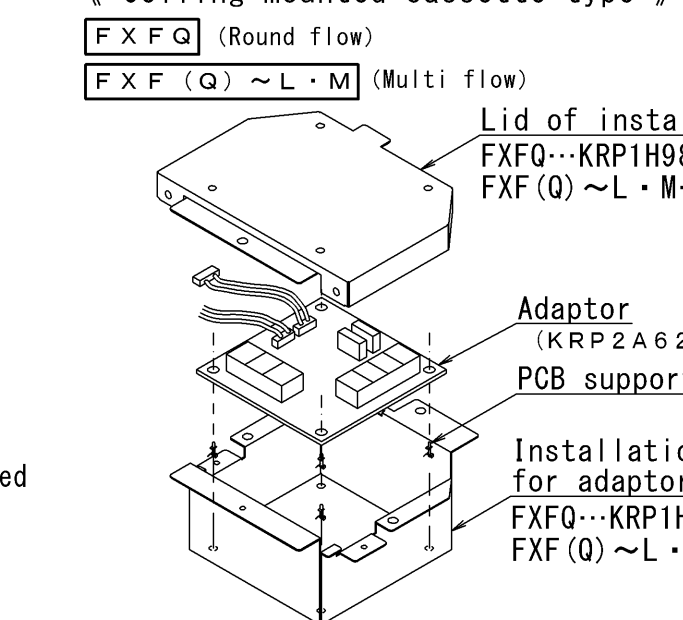


《 Ceiling mounted cassette type 》



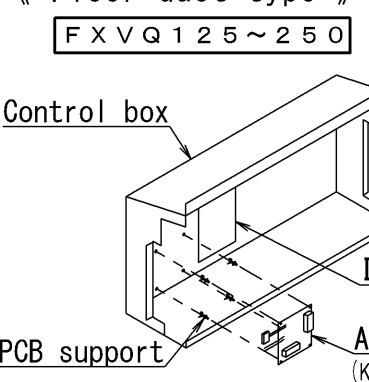
NOTE : Installation box for adaptor PCB is required to install the adaptor.

《 Ceiling-mounted cassette type 》

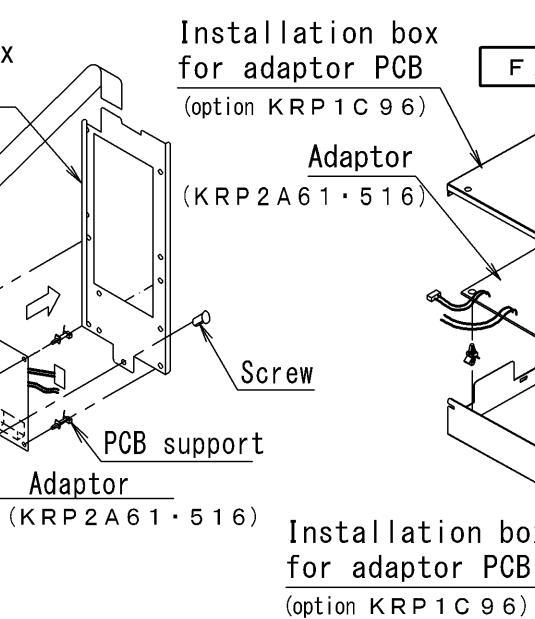


NOTE) Installation box for adaptor PCB is required to install the adaptor.

《 Floor duct type 》

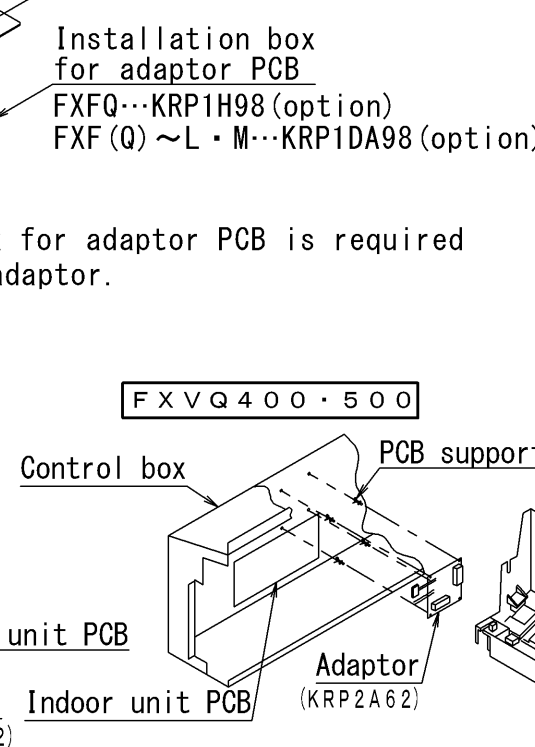


《 Ceiling mounted Built-in type 》

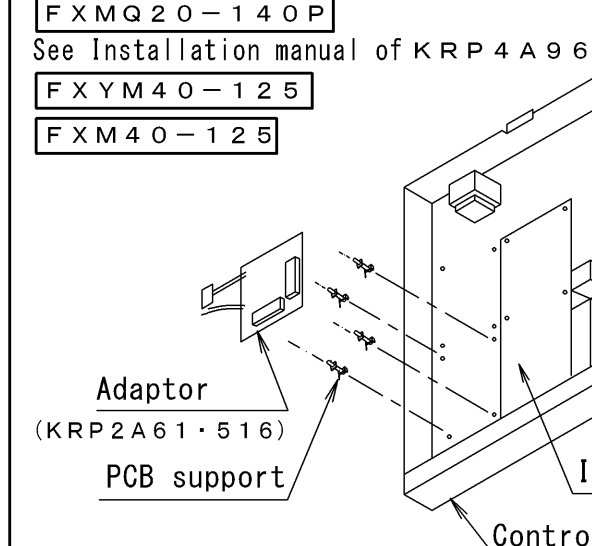


NOTE : Installation box is necessary for second adaptor (FXS(YQ)).

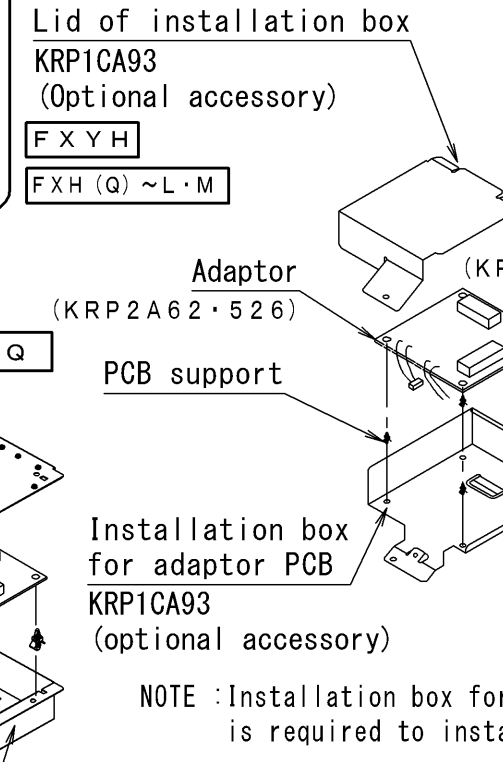
《 Wall mounted type 》



《 Ceiling - mounted Duct type 》

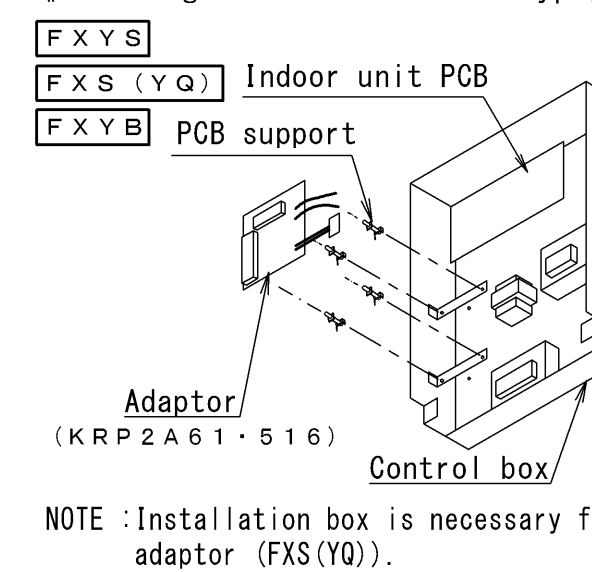


《 Ceiling Suspended type 》

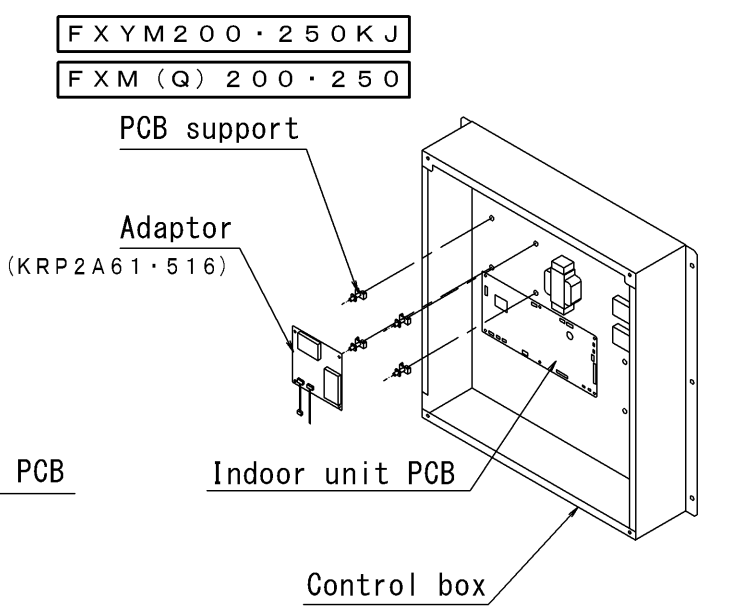
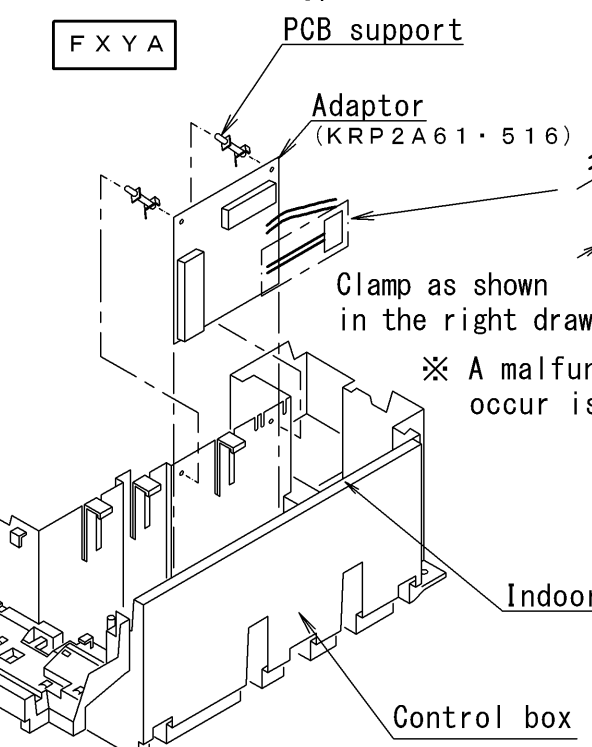


NOTE : Installation box for adaptor PCB is required to install the adaptor.

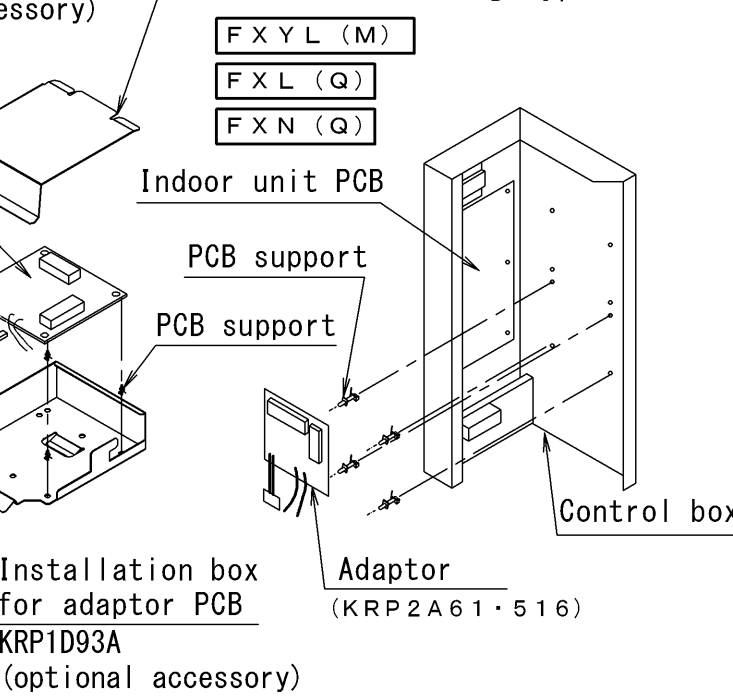
《 Ceiling-mounted duct type 》



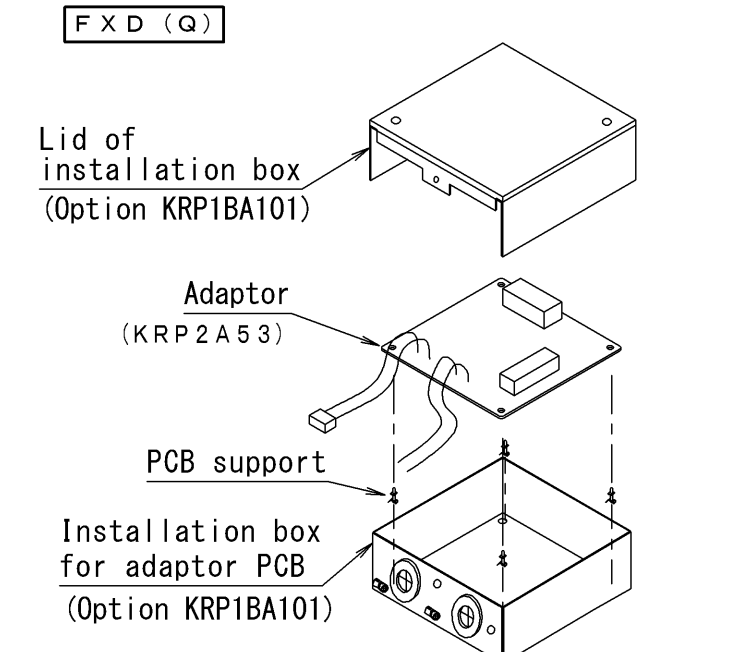
《 Wall mounted type 》



《 Floor-standing type 》

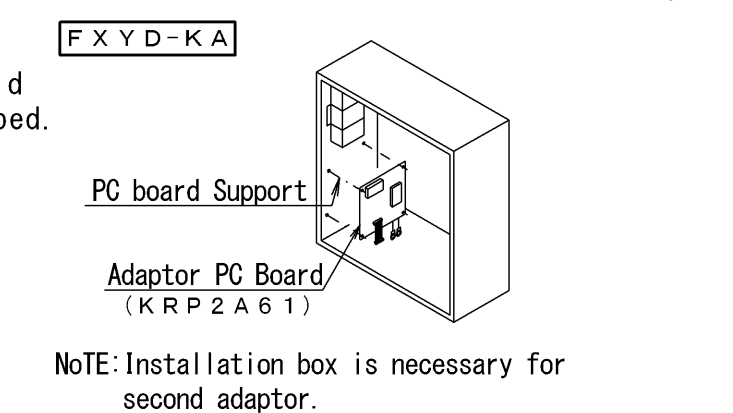


《 Ceiling-mounted duct type 》



NOTE : Installation box for adaptor PCB is required to install the adaptor.

《 Ceiling Mounted Low Silhouette Duct Type 》



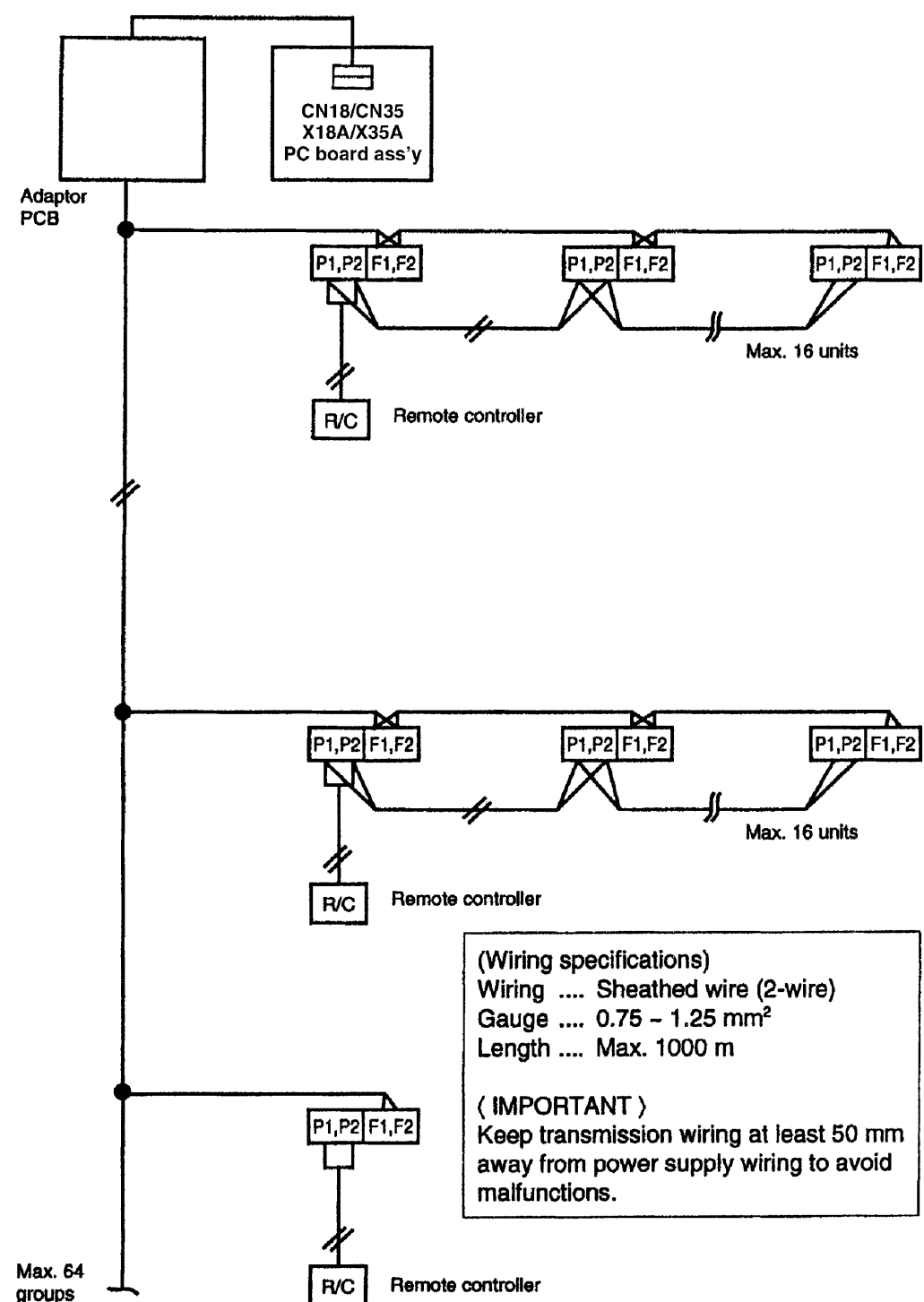
NOTE: Installation box is necessary for second adaptor.

4 Electrical wiring

- First, wire between the indoor and outdoor units, then to the separate power sources, and between the indoor units and the remote controllers. Then, check wiring is correct. (If wanting group control by remote controller, check transmission wiring.) For details, see the installation manual of the indoor and outdoor units.
- Next, wire between the wiring adaptor for electrical appendices (1) and the indoor units. For details, see [Wiring to indoor units](#).
- Finally, wire between external units such as the host computer monitor panel, and make the necessary settings. For details, see [Wiring to external units \(host computer monitor panel\)](#).

(Note) It is not necessary to set address No. for centralized control. (Setting is automatic.)

Wiring to indoor units



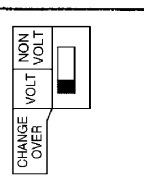
Wiring to external units (host computer monitor panel)

1. Remote control input (operation control)

Wire as described below. Wiring differs depending on whether using a voltage or non-voltage input.

● For voltage input

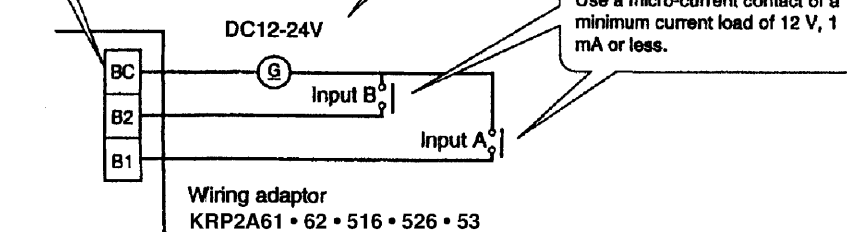
Set input changeover switch (SS1) to "VOLT".
(Factory set: VOLT)



Connect the control input to the common contact (non-polarity).

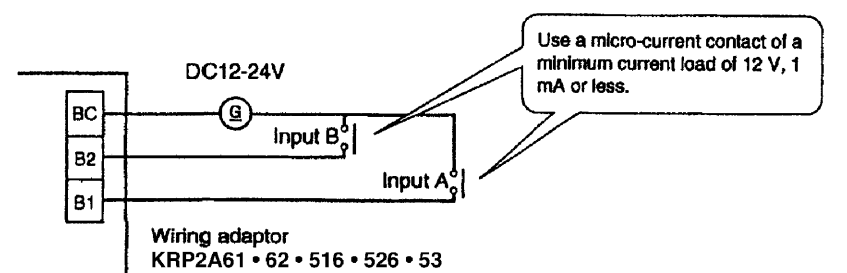
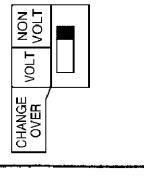
Use a 12-24 V external power supply. Each contact requires approximately 10 mA, therefore carefully select power supply capacity.

Use a micro-current contact of a minimum current load of 12 V, 1 mA or less.



● For non-voltage input

Set input changeover switch (SS1) to "NON VOLT".

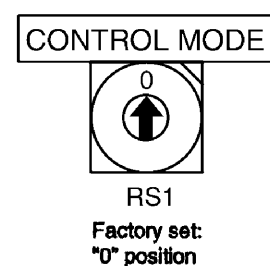


(Wiring specifications)
Wiring Sheathed wire
Gauge 0.18 ~ 1.25 mm²
Length Max. 150 m

(IMPORTANT)
Keep transmission wiring at least 50 mm away from power supply wiring to avoid malfunctions.

2. Setting control mode selector switch (RS1)

Using control mode selector switch (RS1), select the control mode as described below.



① When operating with only display function

Position	Function
0	Input ignored

② When operating with constant input from A

Position	Function	Contents when input A is ON	Contents when input A is OFF
1	Remote controller rejection	Operation (remote controller is normally rejected)	
2	Central priority	Operation + remote controller accepted	
3	Stop by remote controller acceptable	Operation + stop by remote controller acceptable (No operation by the remote controller)	Stop + remote controller rejection
4	Remote controller acceptance/rejection	Remote controller acceptance only (No operation by the remote location)	

(Note)

- Input B is for forced-OFF. When ON, stop + remote controller is rejected, and input A is ignored. When OFF, even if A is ON, the contents of when input A is ON are not achieved. Input A must therefore be re-input.

③ When operating with momentary input from A (Use a momentary input of ON time 200 milli-sec or longer.)

Position	Function	Contents of Input A	Function of Input B
5	Remote controller rejected	Stop for ON while operating, Operate for ON while stop-ping	
6	Last command priority	Stop for ON while operating, Operate for ON while stop-ping (Remote controller is normally accepted.)	Input B will be forced stop function (When ON, stop + remote controller is rejected, input A is ignored.)

★ For demand control from input B

Position	Function when input A is ON	Function when input B is ON
C	Remote controller rejected (Same as position "5")	Forced thermostat OFF command
D		Forced temperature shift command
E	Last command priority (Same as position "6")	Forced thermostat OFF command
F		Forced temperature shift command

- Forced thermostat OFF command
Forces indoor unit to operate the fan only.
- Forced temperature shift command
The indoor unit operates at 2°C higher (cooling) or 2°C lower (heating) than the set temperature.

(Notes)

- Operation is displayed as long as one indoor unit is running. When in the last command priority mode, some units are not operation while ON.
- In such case, even if input A is ON, the unit and all other units in the same zone will stop.

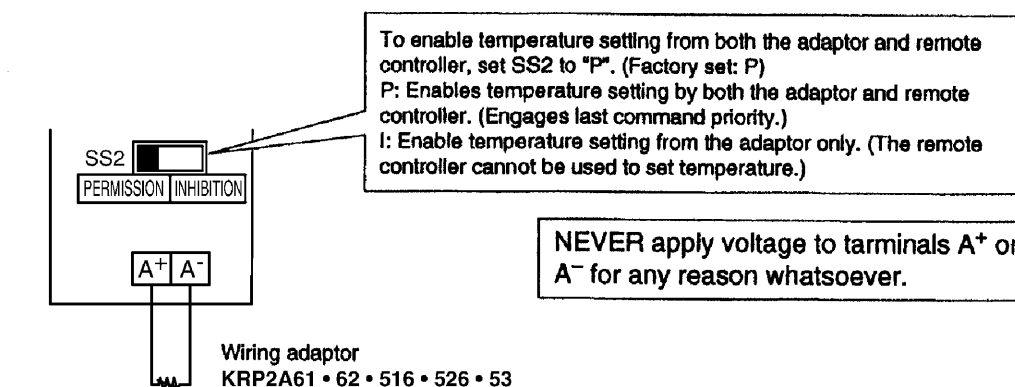
④ When operating with dual momentary inputs from A and B (Use a momentary input of 200 milli-sec or longer.)

Position	Function	Contents when input A is ON	Contents when input A is OFF
7	Remote controller rejection	Operation (remote controller is normally rejected)	
8	Central priority	Operation + remote controller accepted	
9	Stop by remote controller acceptable	Operation + stop by remote controller acceptable (No operation by the remote controller)	Stop + remote controller rejection
A	Remote controller acceptance/rejection	Remote controller acceptance only (No operation by the remote location)	
B	Last command priority	Operation (remote controller is normally accepted)	Stop (remote controller normally accepted)

(Note)

- Doing constant input A with position 7 ~ A, it will be forced OFF function (input A is ignored.)
- Constant input cannot use for input B with position B.

3. Temperature setting input



Temperature setting corresponds to resistance values in the range of 0 to 135Ω. Their relationship is as shown below.

Temperature setting (°C)	16	17	18	19	20	21	22	23	24
Resistance (Ω)	0.0 3.4	5.0 11.6	13.8 20.0	22.4 28.4	31.0 36.4	39.4 44.8	48.2 52.8	56.6 61.2	65.2 69.4

Temperature setting (°C)	25	26	27	28	29	30	31	32
Resistance (Ω)	73.8 77.8	82.4 85.8	91.0 94.0	99.4 102.2	108.6 110.4	117.2 119.2	125.8 127.4	134.2 140.0

(Note) Wiring resistance included in above figures.

(Wiring specifications)

Wiring Sheathed wire
Gauge 1.25 ~ 2.00 mm²
Length Max. 70 m

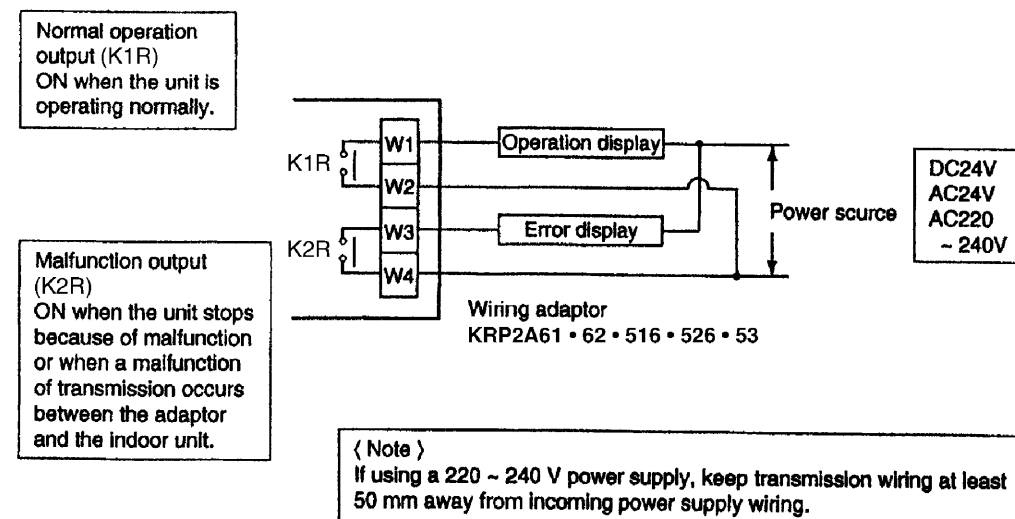
(IMPORTANT)

Keep transmission wiring at least 50 mm away from power supply wiring to avoid malfunctions.

4. Cancelling display signals

Operation output terminals (W1 and W2) and malfunction output terminals (W3 and W4) are non-voltage constant contact output.

(Allowed electric current per contact is between 10 mA and 3A.)



Display output is described by system in the below table.

Both K1R and K2R OFF	K1R only ON	K2R only ON
All units OFF	At least one unit running normally, no malfunction	Even 1 unit stopped due to malfunction or malfunction of transmission between adaptor and indoor unit