

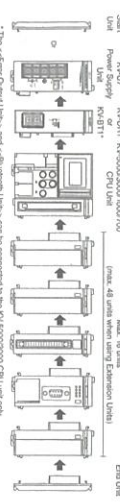
When the temperature inside the control panel (temperature on bottom surface) exceeds 50°C, the temperature of the control panel will rise more temperature, for example, by installing forced air cooling or providing more space around the unit to improve ventilation.

When the Extension Unit is used, allow at least 60 mm of space between the units on the upper and lower racks to compensate the effect of heat. When using the protective sticker sheet, be sure to remove it after you have finished installing the unit inside the panel.

During operation and shortly after power OFF, this equipment is heated up. Don't touch it to avoid a burn.

## Connecting units

- Be sure to follow these guidelines when connecting units.
- Always connect <<Start Units>>, <<Power Supply Units>>, <<Error Output Units>> and <<Bluetooth Units>> to the left of the <<CPU Unit>>.
- Always connect an <<End Unit>> to the right of the last connected unit.



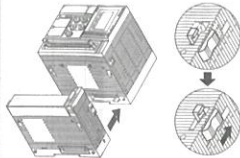
\* The <<Error Output Units>> and <<Bluetooth Units>> can be connected to the KV-20000000 CPU unit only.

## Maximum connectable units

A maximum of 16 units can be connected to a single CPU Unit (excluding Power Supply Units, Error Output Units, Bluetooth Units and End Units). Up to 48 units can be connected when using 2 sets of Extension Units. Some Special Units do not support 48 connections. For more information see each unit's instruction manual.

## Assembling units

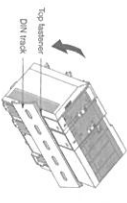
- Release the lock levers on the top and bottom of the right unit.
- Connect the units by inserting the right unit's lock lever into the left unit's lock lever slot.
- Lock the lock levers on the top and bottom of the right unit.



## Mounting the units on a DIN track

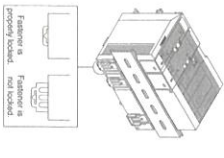
This section describes how to mount connected units on a DIN track.

- Latch the DIN track mount fastener on the top of each unit onto the groove on the top of the DIN track.



- Insert the bottom of the DIN track into the DIN mount fastener on the bottom of each unit.

- Lock whether the bottom DIN track mount fastener is pushed in (locked).



## Wiring


### Precautions when wiring units

- Pay attention to the following when wiring input/output devices.
- Separate the input and output lines when wiring.
- Positioning input/output signal lines close to power lines may result in abnormal device operation due to the influence of high-voltage and large currents. Separate input/output signal lines and power lines by at least 100 mm.
- Separate 24 VDC input/output lines from 100 VAC and 200 VAC lines.
- When using a duct to hold wires, verify that the duct is properly grounded.

## Input/output wiring diagrams

### Expansion Input Units

#### KV-B16XTD

		Signal name	Signal name
001	000	001	000
003	002	003	002
005	004	005	004
007	006	007	006
COM0	008	COM0	008
009	009	009	009
011	010	011	010
013	012	013	012
015	014	015	014
COM1	COM1	COM1	COM1