

TOSHIBA INSTALLATION MANUAL

Power peak-cut control board MODEL:TCB-PCDM2E

Safety Precautions

- Please read this section carefully before installation work to install the accessory parts in the prescribed manner. The precaution given here deal with serious safety issues. It is, therefore, of the utmost importance that they are observed in full.
- The meanings of safety-related symbol are as follows:

⚠ WARNING

This symbol is used to identify action which, if carried out in an incorrect ignoring this indication, could lead to serious personal injury or even death.

⚠ CAUTION

This symbol is used to identify action which, if carried out in an incorrect ignoring this indication, could lead to serious human injury or property damage.

- After installation work has been completed, perform a trial operation of the equipment in order to ensure that it is operating normally, and then hand over to the customer and ask to keep this Safety Precautions and Installation Instruction.

⚠ WARNING

Installation of accessory parts should be performed either by personnel from this dealer where it was purchased or by specialist installation technicians.

- Incorrect installation by unqualified personnel can result in electric shock, fire or abnormal operation.

Reassembling, repair, or modification of this accessory parts is strictly forbidden.

- Failure to follow these directions can result in inflammation, earth leakage or abnormal operation causing electric shock or injury.

Use the specified wires for wiring connect the terminals securely fix. To prevent external forces applied to the terminals from affecting the terminals.

Do not install a location where flammable gasses may be present.

- Fire may break out should flammable gas leak into the vicinity of the parts.

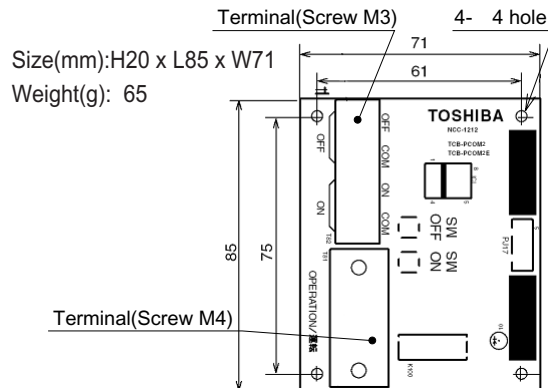
Repair of the accessory parts must also carried out by personnel from dealer where it was purchased.

- Fire may break out should flammable gas leak into the vicinity of the parts.

Feature

The upper limit capacity of the outdoor unit is restricted based on the demand request signal from outside

Dimension



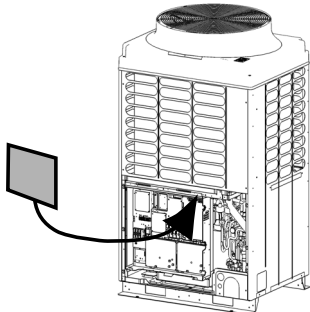
Accessory parts

No.	Parts name	Q'ty
1	Connection cable	1
2	Support to fix the board	4
3	Earth screw	2
4	Wire-clamp	1
5	Screw for wire-clamp	1
6	Banding band	2

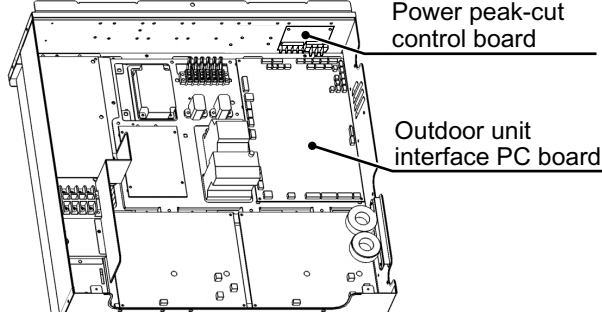
Placing position

Install this P.C. board to the upper side of the electric component box on outdoor unit.

[Outdoor unit]

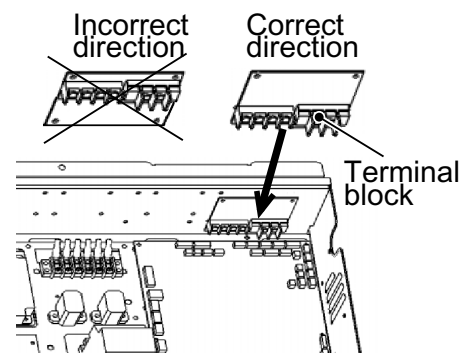


[Electric component box]



How to install

- Be sure to turn off the power switch before installing.
- Place this P.C. board by using the support on the upper side of the electric component box. There are four installation holes to place the support on the upper side of the electric component box.
- Install the P.C.board to the supports. Be careful the terminal block direction as the interior side.
- Connect the P.C.board (TCB-PCDM2E)PJ17 and outdoor unit interface CN513 with connection cable.
- Bind the remaining connection cable with the attached banding band.



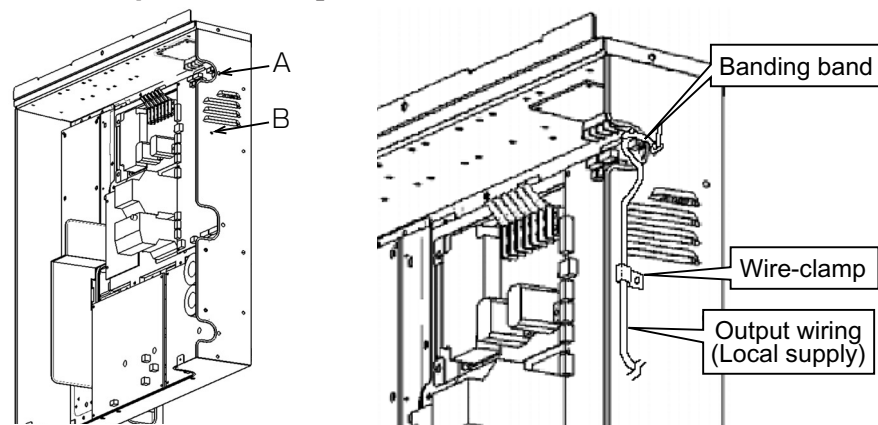
Wiring

	Length	Size	Type
Input wiring	Up to 500m	2-core or 3-core, 0.75mm ²	Shield wire
Output wiring	Up to 200m	2-core, 0.75mm ² *	Shield wire
	Up to 400m	2-core, 1.5mm ² *	

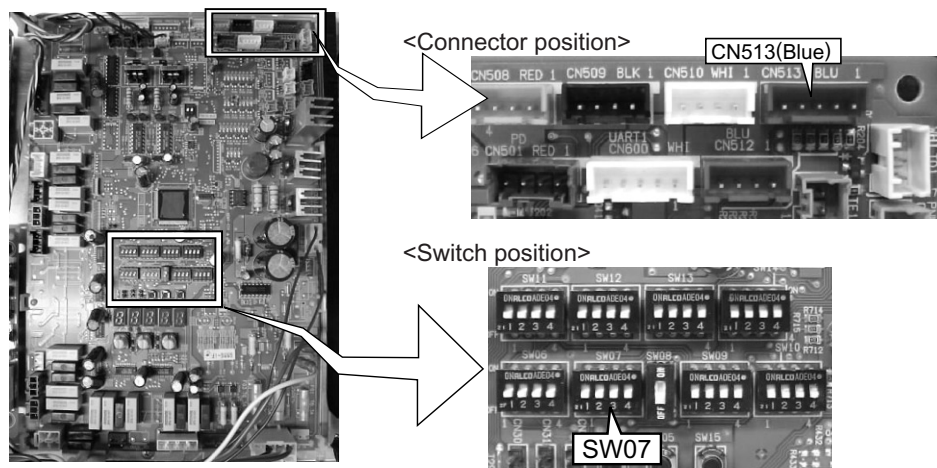
* In conformity with design 60245 IEC 57

- Refer to the "Electric wiring diagram" when wiring.
- Be sure to use the shield wire to prevent noise trouble, and perform the grounding at both sides of shield wires.
- Fix the output wiring with the wire clamp and banding band.
 - Let the output wiring into the banding band and band it together with the other wiring.
 - Fix the wire-clamp using the screw hole on the "B" position.

[Electric component box]



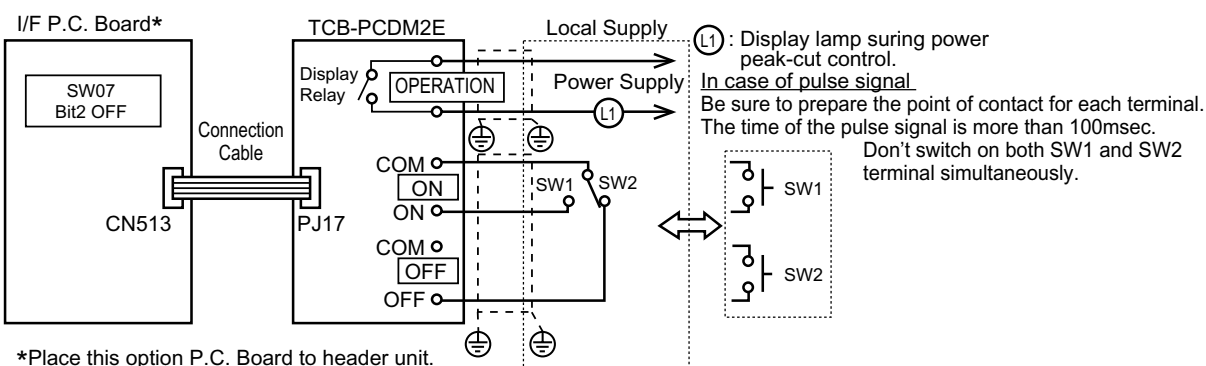
Connector and Switch position on interface PC board



Function / Electric wiring diagram

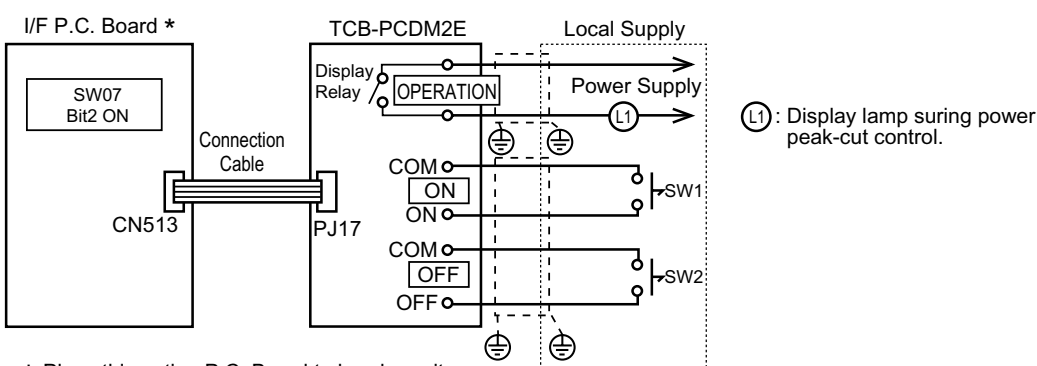
Two type control can be selected by setting SW07(Bit2) on the interface P.C. board of the header unit.

[Standard function]



*Place this option P.C. Board to header unit.

[Expansion function]



* Place this option P.C. Board to header unit.

SW07-Bit2 OFF

Input		SW07-Bit1		Display Relay (L1)
SW1	SW2	Bit1 OFF	Bit1 ON	
OFF	ON	100%(Normal)	100%(Normal)	OFF
ON	OFF	0%(Stop)	Up to 60%	ON

⚠ CAUTION

- Be sure to prepare a non-voltage point for each terminal.
- Display Relay capacity of "OPERATION"
Below AC240V 0.5A (COS φ =100%)
When connecting load such as relay coil to "L1" load, insert the noise surge absorber.
Below DC24V 1A (Non-inductive load)
When connecting load such as relay coil to "L1" load, insert the the bypass circuit.
- Supplementary Insulation must be added to user touchable part of switches.

SW07-Bit2 ON

Input		SW07-Bit1		Display Relay (L1)
SW1	SW2	Bit1 OFF	Bit1 ON	
OFF	OFF	100%(Normal)	100%(Normal)	OFF
ON	OFF	Up to 80%	Up to 85%	ON
OFF	ON	Up to 60%	Up to 75%	ON
ON	ON	0%(Stop)	Up to 60%	ON

⚠ CAUTION

- Be sure to prepare non voltage continuous point of contact for each terminal.
- Display Relay capacity of "OPERATION"
Below AC240V 0.5A (COS φ =100%)
When connecting load such as relay coil to "L1" load, insert the noise surge absorber.
Below DC24V 1A (Non-inductive load)
When connecting load such as relay coil to "L1" load, insert the bypass circuit.
- Supplementary Insulation must be added to user touchable part of switches.