TOSHIBA **INSTALLATION MANUAL**

External master ON/OFF control board MODEL:TCB-PCMO2E

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.

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

Reassembling, repair, or modification of this accessory parts is strictry forbidden. 1 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.

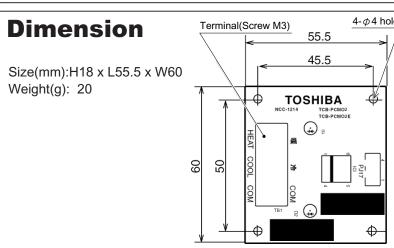
Do not install a location where flammable gasses may be present. 1 Fire may break out should flammable gas leak into the vicinity of the parts.

Repair of the accessory parts must also carried out by personnel from dealer where it was purcased. 1 Fire may break out should flammable gas leak into the vicinity of the parts.

Feature "TCB-PCMO2E" is used for the following external master controls

- 1. Night operation control 2. Snowfall fan control
- 3. Operation mode selection control
- 4. External master ON/OFF controll

Refer to the "Function/Electric wirong diagram" for feature of the each controls, and connecting way is different according to the control.



Accesory parts

No.	Parts name	Q'ty
1	Connection cable	1
2	Support to fix the board	4
3	Earth screw	2
4	Banding band	1

Local Supply

SMC

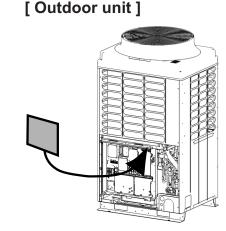
SMH

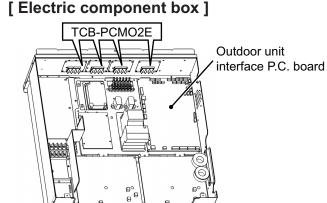
Wiring Length Size Type Wiring Up to 500m 2-core or 3-core, 0.75mm² Shield wire

- (1) Refer to the "Electric wiring diagram" when wiring.
- (2) Be sure to use the shield wire to prevent noise trouble, and perform the grounding at both sides of shield wires.

Placing position

Install this P.C. board to the upper side of the electric component box on outdoor unit. Up to 4"TCB-PCMO2E" can be installed simultaneously in one electric component box.





Incorrect

direction

Correct

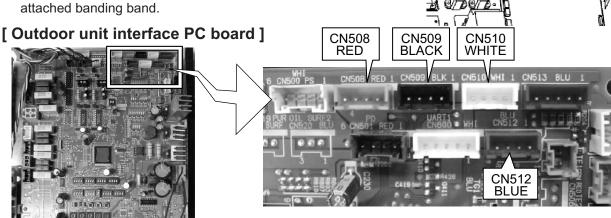
direction

Terminal

block

How to install

- (1) Be sure to turn off the power switch before installing.
- (2) Place this P.C. board by using 4 pcs the support to fix the board. There are four installation holes to place the support on the upper side of the electric component box.
- (3) Install the P.C.board to the supports.
 - Be careful the terminal block direction as the interior side.
- (4) Connect the P.C.board (TCB-PCMO2E) PJ17 and outdoor unit interface CN508 to CN512 with connection cable. Connecter on interface P.C. board is different according to the
- (5) Bind the remaining connection cable with the attached banding band.



CN508	Night operation control
CN509	Snowfall fan control
CN510	Operation mode selection control
CN512	External master ON/OFF control

Function / Electric wiring diagram

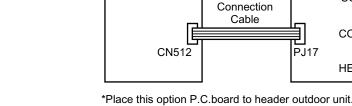
Cable

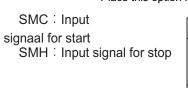
Feature

Function

The outdoor unit starts or stops the system.

I/F P.C. Board*





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Terminal	Input signal	Operation
COOL (SMC)	ON OFF	All indoor units are started on previous operating.
HEAT (SMH)	ON OFF	Stops all indoor units.
	COOL (SMC)	COOL ON OFF HEAT ON

⚠ CAUTION)

- Be sure to prepare non voltage pulse point of contact for each terminal.
- This control is conducted when input signal stand up or fall down.
- (Standing and falling status should be held for 100 msec. or more.)
- Supplementary Insulation must be added to user touchable part of switches.

Night operation (Sound reduction) control

External master ON/OFF control

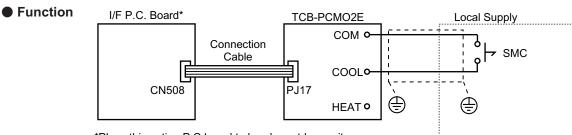
TCB-PCMO2E

HEAT o

PJ17

Feature

Sound level can be reduced with connecting outdoor interface P.C.Board by restricting commpressor and fan speed.



*Place this option P.C.board to header outdoor unit.

SMC: Input signal for night operation

operation.			
Terminal	Input signal	Operation	
COOL	ON OFF	Night operation control	
(SMC)	ON OFF	Normal operation	

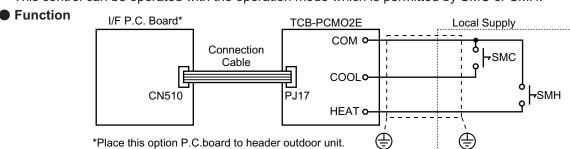
⚠ CAUTION)

- Be sure to prepare non voltage continuous point of contact for each terminal.
- · Supplementary Insulation must be added to user touchable part of switches.

Operation mode selection control

Feature

This control can be operated with the operation mode which is permitted by SMC or SMH.



SMC : Cooling mode designated input switch SMH : Heating mode designated input switch

Term	inal			
COOL (SMC)	HEAT (SMH)	Selected operation mode	Note	
ON	OFF	Only cooling mode permitted	*1	
OFF	ON	Only heating mode permitted	*1	
OFF	OFF	Normal operation		

Note

- *1 When the operation select button of remote controller is pushed,
 - ' 🛋 (mode select control)" mark is indicated on the remote controller display.

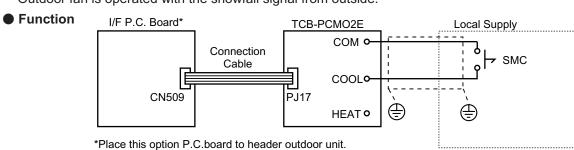
⚠ CAUTION)

- Be sure to prepare non voltage continuous point of contact for each terminal.
- Supplementary Insulation must be added to user touchable part of switches.

Snowfall fan control

Feature

Outdoor fan is operated with the snowfall signal from outside.



*Place this option P.C.board to header outdoor unit.

SMC : Snowfall detection switch

Terminal	Input signal	Operation
COOL	ON OFF	Snowfall fan control (Operates outdoor fan.)
(SMC)	ON OFF	Normal operation

⚠ CAUTION)

- Be sure to prepare non voltage continuous point of contact for each terminal.
- Supplementary Insulation must be added to user touchable part of switches.