

Precautions for safety

- Read these “Precautions for Safety” carefully before installation work.
- The precautions described below include important items regarding safety. Observe them without fail. Understand the following details (indications and symbols) before reading the body text, and follow the instructions.

The meanings of indications



WARNING

Text set off in this manner indicates that failure to adhere to the directions in the warning could result in serious bodily harm or loss of life if the product is handled improperly.



CAUTION

Text set off in this manner indicates that failure to adhere to the directions in the caution could result in serious bodily injury or damage to property if the product is handled improperly.

- After completion of installation, perform test run to check for any problems. Explain method of use and maintenance to the customer by following the descriptions in the manual. Ask customer to keep this Manual at accessible place for future reference.

WARNING

- Only a qualified installer or qualified service person is allowed to do installation work. If installation is carried out by an unqualified individual, fire or electric shock may result.
- Perform installation work reliably according to this installation manual. Incomplete installation may cause electric shock, fire or abnormal operation.
- Electrical work must be performed by a qualified installer or qualified service person in accordance with this installation manual. The work must satisfy all local, national and international regulations. Inappropriate work may result in electric shock or fire.
- Connect the specified wires firmly and clamp them securely so that external force applied to the wires does not affect the connector pins. Improper wire connection or clamping may result in fire or malfunction.
- Do not disassemble, modify, repair or move the product yourself. Doing so may cause fire, electric shock, injury or water leaks.
- Ask a qualified installer or qualified service person to do any repairs or to move the product.

1 External view

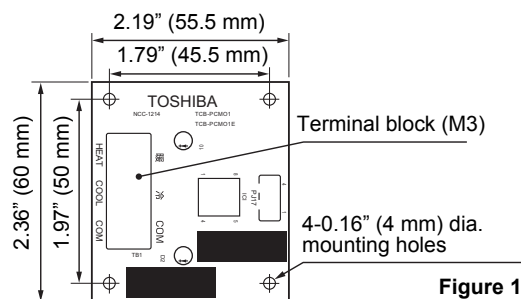


Figure 1

2 Accessories

Table 1

No.	Part Name	Qty
1	Connection cable	1
2	Support to fix the board	4
3	Earth screw	2
4	Binding band A	4

3 Installation procedures

- Before proceed an installation work, please make sure the power supply is OFF.
- Insert four fixing supports (2) into the holes on the “Optional PCB”. (See Figure 1)
- Attach the “Optional PCB” on the designated location in the electrical component box of the header outdoor unit. (See Figure 2)
- Use the attached connection cable (1) and connect the connector (PJ17) on the “Optional PCB” to the connector (CN512 or CN508 or CN510 or CN509) on the “Interface PCB”. (See Figure 3)
- Use the binding band (4) to tie and adjust a cable length.

[PCB Installation Position]

SMMS-i, SMMS-e

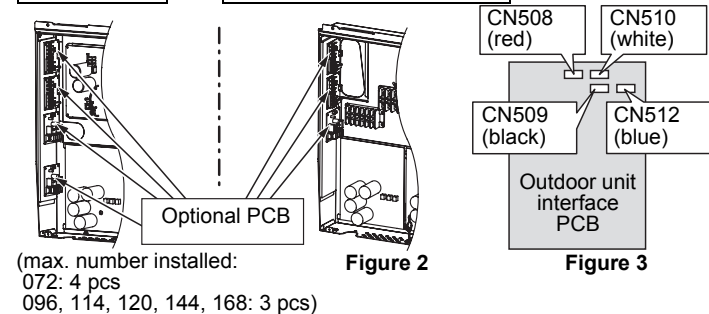
MMY-MAP072

MMY-MAP096,114, 120, 144, 168

SHRM-i, SHRM-e

MMY-MAP072

MMY-MAP096,120, 144, 168



(max. number installed:
072: 4 pcs
096, 114, 120, 144, 168: 3 pcs)

Figure 2

Figure 3

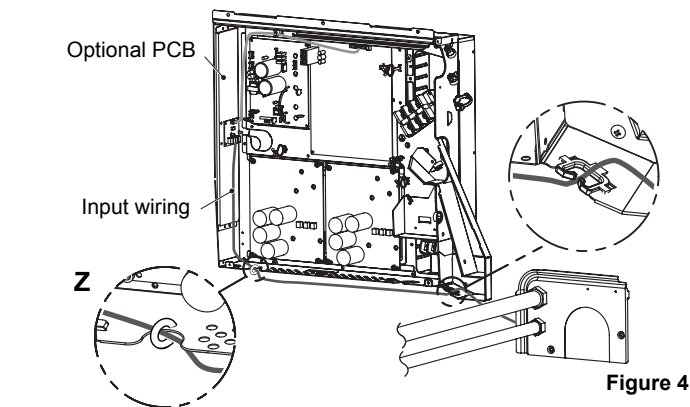


Figure 4

[PCB Installation Position]

NOTE

Distance input wiring from high voltage parts.

- Tie an input wiring with the binding band A (4) at the position Z shown in the Figure 4.
- Route the connection cable as shown in the Figure 4. Also, use lower conduit hole for wiring.

4 Details of operation, wiring diagram

■ External master ON/OFF control

Model: SMMS-i, SHRM-i, SMMS-e, SHRM-e

NOTE

Use copper supply wires.

▼ Function

By connecting the cable (1) to the interface PC board on an outdoor unit, all indoor units connected to the outdoor unit enable to operate simultaneously.

▼ Operation

The outdoor unit connection is for the header unit (U1).

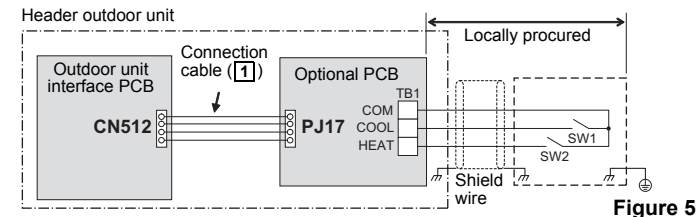


Figure 5

SW1: Operation input switch

SW2: Stop input switch

Table 2

Terminal	Input Signal	Operation
COOL (SW1)	ON OFF	All indoor units operate together
HEAT (SW2)	ON OFF	All indoor units stop together

CAUTION

Provide no-voltage pulse contacts for each terminal.
Hold the ON state for at least 100 msec.
Do not turn SW1 and SW2 ON simultaneously

■ Night time operation (sound reduction) control

Model: SMMS-i, SHRM-i, SMMS-e, SHRM-e

▼ Function

As the cable (1) is connected to the “Interface PCB” on an outdoor unit, both compressor speed and fan speed are restricted while the signal of the night operation control is input. It makes the noise reduction during the night time operation.

▼ Operation

The outdoor unit connection is for the header unit (U1).

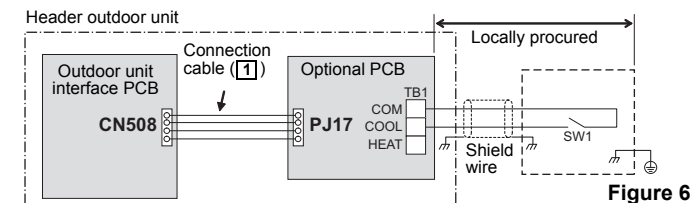


Figure 6

SW1: Night time signal switch

Table 3

Terminal	Input Signal	Operation
COOL (SW1)	ON OFF	Night time operation control
	ON OFF	Normal operation

CAUTION

Each terminal should be connected to dry contact.

■ Operation mode selection control

▼ Function

The heating/cooling mode of the system can be selected by connecting to the interface PCB of outdoor units.

▼ Operation

The outdoor unit connection is for the header unit (U1).

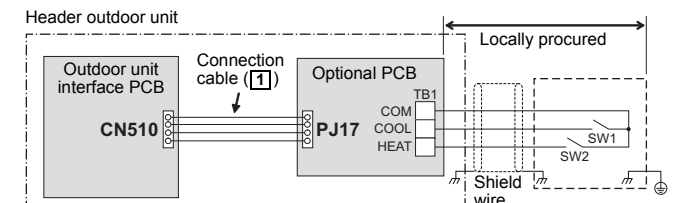


Figure 7

SW1: Cooling mode specified input switch

SW2: Heating mode specified input switch

Table 4

Input Signal		Operation: Selected operation mode
Cooling (SW1)	Heating (SW2)	
ON	OFF	Cooling operation only
OFF	ON	Heating operation only
OFF	OFF	Normal operation

CAUTION

Each terminal should be connected to dry contact.

Model: SMMS-i, SHRM-i, SMMS-e, SHRM-e

The Switching of processing of Indoor Unit Operation State

Processing of the operation state can be switched for indoor units in a mode other than the selected operation mode by setting the jumper lead (J01) of the header outdoor unit interface PCB.

Table 5

Jumper lead	Details of Processing		
J01 connected (factory default)	Unallowed indoor units in a mode other than the selected operation mode are not treated as priority (thermo OFF state). (Unallowed indoor units)		
	Operation Mode	Operation State	Remote control
	Cooling unit	Air blow operation at blow rate set on remote control	 indicator is displayed.
	Heating unit	Air blow operation at super-slow blow rate	
	Air blow unit	Regular air blow operation at blow rate set on remote control	
J01 cut	Indoor units in a mode other than the selected operation mode are forcibly switched to the selected operation mode.		
	PC board selection mode	Remote control operation/display	
	Normal	❄️, 🔥, 🌬️, or 🌀 can be selected	When using the remote control,  (mode select control) indicator is displayed.
	Cool	Only ❄️, 🔥, or 🌬️ can be selected	
	Heat	Only 🌬️ or 🌀 can be selected	

■ Snowfall fan control

Model: SMMS-i, SHRM-i, SMMS-e, SHRM-e

▼ Function

The outdoor unit fan operates at snowfall by connecting to the outdoor unit interface PCB.

▼ Operation

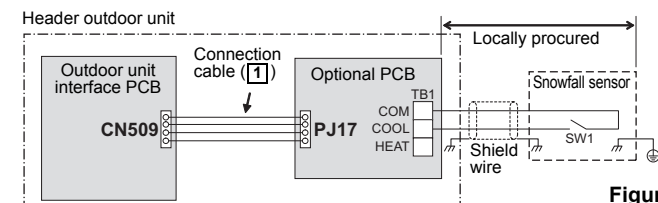


Figure 8

SW1: Snowfall detection switch (snowfall sensor)

Table 6

Terminal	Input Signal	Operation
Cooling (SW1)	ON OFF	Snowfall fan control (Fan in outdoor unit operates.)
	ON OFF	Normal operation

CAUTION

Provide no-voltage continuous contacts for each terminal.