TOSHIBA INSTALLATION MANUAL

To Qualified Installer in Installation Work and Service

Air purifier kit
Model: TCB-EAPC1UYHP-E

- Thank you for purchasing Air purifier kit for TOSHIBA air conditioners.
- Read this manual carefully for correct installation of the Air purifier kit before starting work.
- After the installation is completed, execute a test run to check for normal operation and explain how to use and maintain the Air purifier kit to the customer according to the Operation Manual.
  Ask the customer to keep this manual with the Operation Manual.
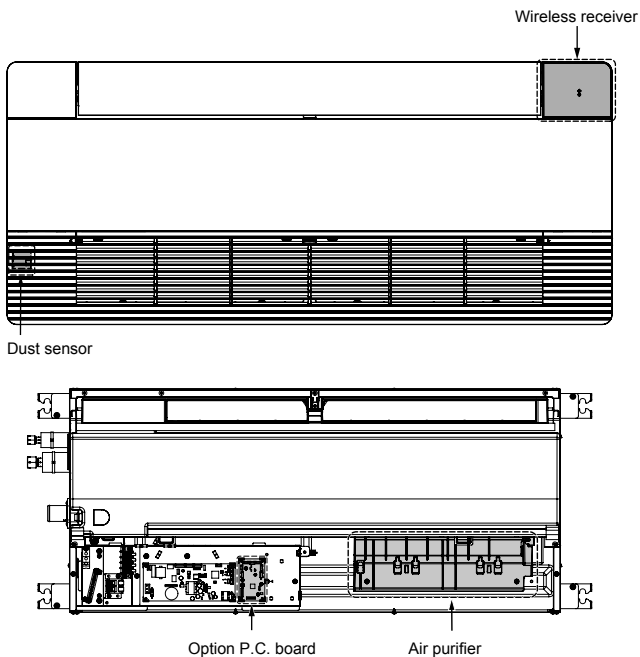
Observe the safety precautions described in the Installation manual supplied with the ceiling panel and air conditioner (indoor unit).

Accessories

Part Name		Q'ty
Wireless receiver kit		1
Wireless remote controller		1
Remote controller holder		1
Air purifier		1
Option P.C. board		1
Dust sensor		1
Dust sensor cable		1
UART cable		1

| Part Name		Q'ty
Operation Manual		1
Installation Manual (this manual)		1
CD-ROM		1
Battery		2
Flat head wood screw Ø3.1 x 16L		2
Steel screw Ø4 x 8L		2
Earth screw Ø4 x 10L		1
Washer		1
Spacer		4
Wire clamp		1

Installation place

If the panel is already installed onto the indoor unit, remove it from the indoor unit.
For more information about removing the panel, refer to the Panel installation manual.

Wireless receiver

Dust sensor

Option P.C. board   Air purifier

Settings for the Wireless receiver before installation

Before installing the Wireless receiver, make the following setting referring to each description.
- To install the wireless remote controller together with wired remote controller, configure the "Multiple remote controller installation".
- When ceiling height exceeds the standard height (factory default), refer to the "Installing indoor unit on high ceiling" on installation manual of the indoor unit.
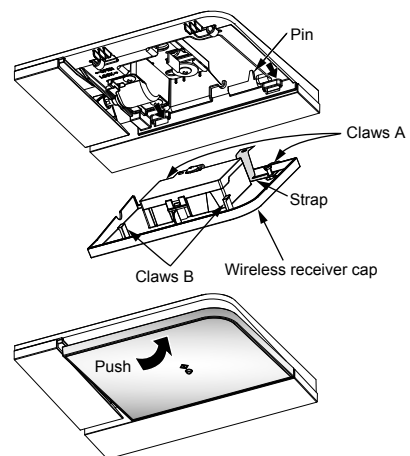
How to install the Wireless receiver

1. Remove the adjust corner cap at the corner where the Wireless receiver is to be installed.
- Pull the edge of the adjust corner cap in the direction of arrow.
- Remove strap from the pin and detach the adjust corner cap from the ceiling panel.

Pull

Pin

Strap

Adjust corner cap   Ceiling panel
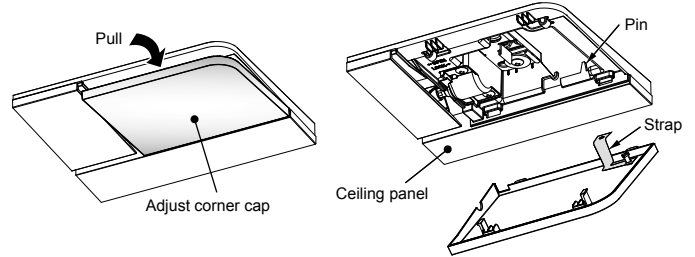
2. Wiring the wireless receiver connecting cable through to the clamp in the back side of the ceiling panel.

Clamp   Clamp

Wireless receiver cable
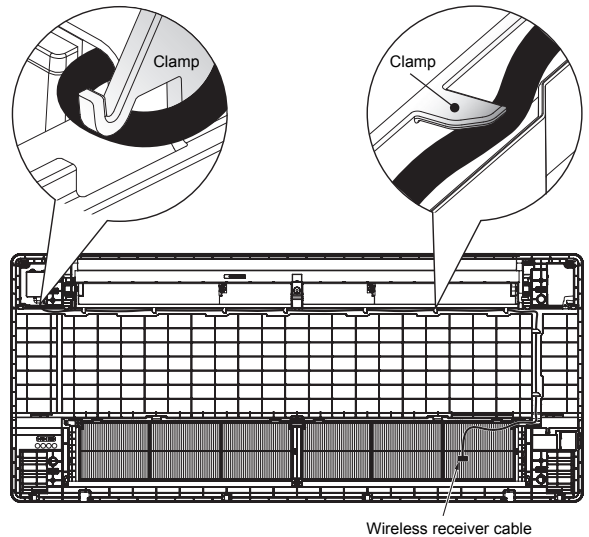
3. Attach the Wireless receiver cap to the ceiling panel.
- Hook the strap of the Wireless receiver cap securely to the pin.
- Insert the two claws A of the Wireless receiver cap into the rectangular holes of the ceiling panel in the direction of arrow.
- Push the Wireless receiver cap so that the two claws B on the back of the cap are fitted.

Pin

Claws A

Strap

Claws B   Wireless receiver cap

Push

⚠ CAUTION

Press the two claws B of the adjust corner cap firmly as far as they will go, and then check that the adjust corner cap is closely attached.
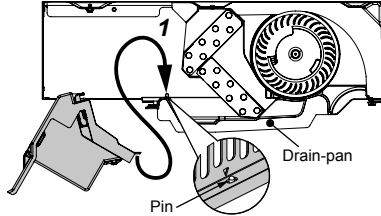Failure to do so may result in water leakage.

How to install the Air purifier

Install Air purifier to indoor unit

① • Match the direction of triangle mark between Air purifier and drain-pan 3 places before insert slot hole.
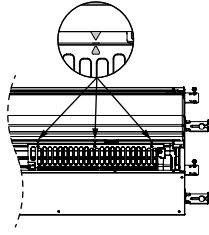
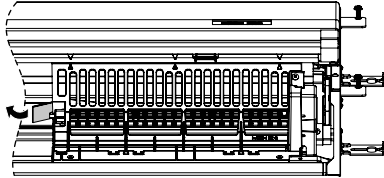• Insert slot hole of Air purifier to pin on the drain-pan of indoor unit 3 place on the direction of arrow **1**.

Drain-pan

Pin

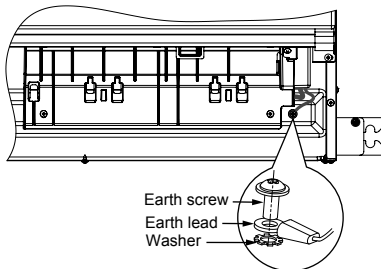② • Push the Air purifier to fitting with upper cabinet of indoor unit on the direction of arrow **2**.

Cabinet upper

Air purifier
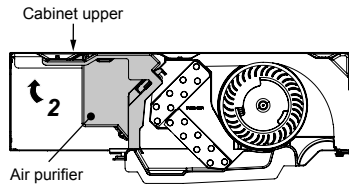
• Fix steel screw Ø4 x 8L two places.
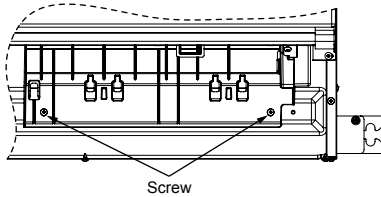
Screw

③ Remove protection sheet by pull out follow arrow direction.

④ Fix earth screw Ø4 x 10L for fixed earth cable with upper cabinet.


Earth screw
Earth lead
Washer

Wiring and connecting cable

• Stick wire clamp to upper cabinet by release adhesive paper position nearly electrical box.
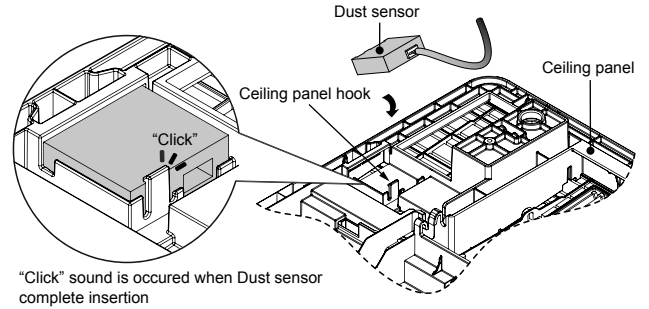• Wiring the connecting cable through to the clamp.

Stick wire clamp on this area

Electrical box   Wire clamp
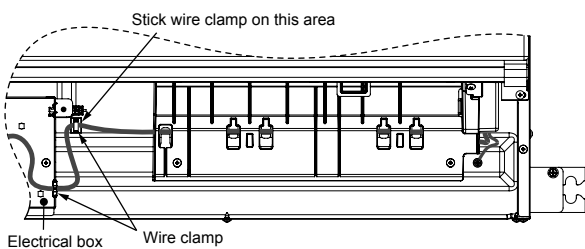
How to install the Dust sensor

1. Assembly Dust sensor to ceiling panel.

• Connect Dust sensor cable to Dust senser module.


Dust sensor cable
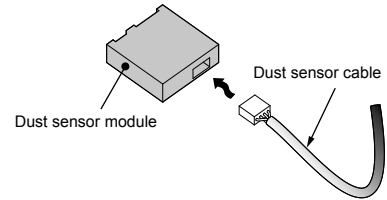
Dust sensor module

• Insert Dust sensor module to ceiling panel in the direction of arrow and push to fitting with hook of ceiling panel.

Dust sensor

Ceiling panel

Ceiling panel hook

"Click"

"Click" sound is occured when Dust sensor complete insertion

2. Wiring the Dust sensor cable through to the clamp in the back side of the ceiling panel.

Dust sensor

Dust sensor cable

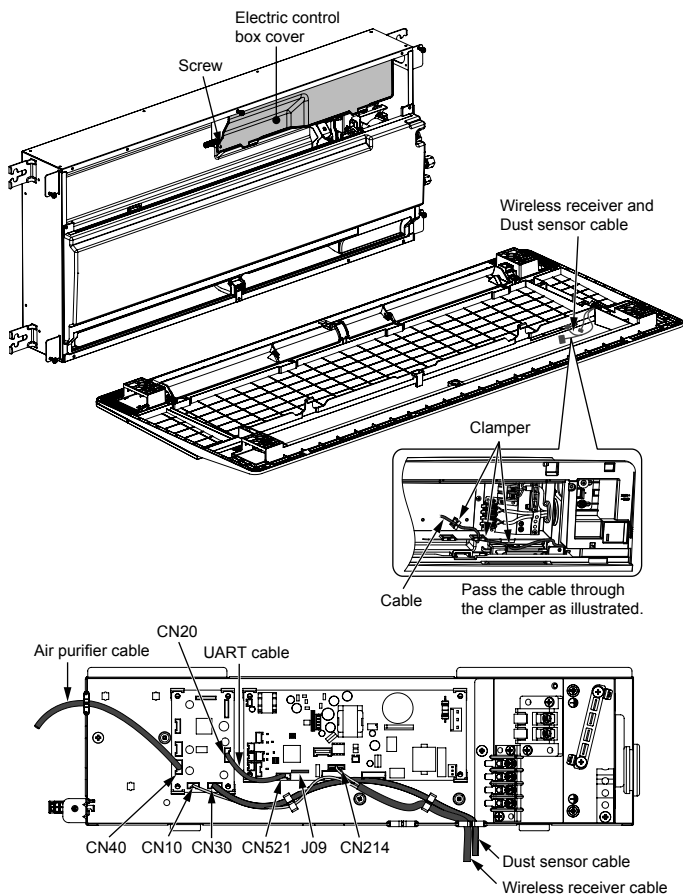Wire clamp
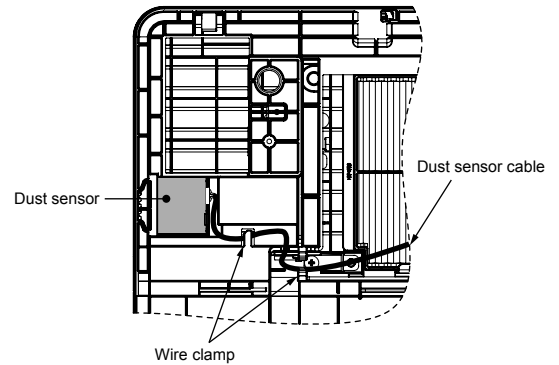
How to install the Option P.C. board

1. Assembly Option P.C. board to electrical box.

• Insert the Spacer to square hole of electrical box 4 pcs.
• Push Option P.C. board to Spacer pin 4 place.

Option P.C. board

Spacer

Square hole
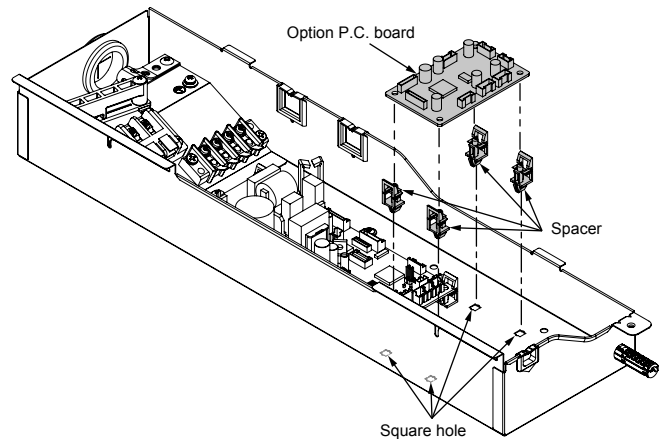
How to connecting cable

- Remove the screw of the electrical control box cover, and detach the electrical control box cover by slide.
  (The electrical control box cover is clamped onto the hinge.)
- Pass the Wireless receiver and Dust sensor cable from the ceiling panel through the clamper as shown.
- Cut jumper (J09) of main P.C. board of indoor unit to activate option P.C. board.
- Connect the UART cable connector 5 pin to CN521 on the main P.C. board and CN20 on the option P.C. board of indoor unit.
- Connect the connector 9 pin of Wireless receiver cable to CN214 on the main P.C. board and connect the connector 4 pin of Wireless receiver cable to CN10 on the option P.C. board of indoor unit.
- Connect the connector 6 pin of Dust sensor cable to CN30 on the option P.C. board of indoor unit.
- Connect the connector 4 pin of Air purifier cable to CN40 on the option P.C. board of indoor unit.
  * **Connect the wire firmly to the connector to ensure operation of the Wireless receiver, Dust sensor and Air purifier.**
- Attach the electrical control box cover by reversing the procedure of detaching.
  * **Make sure that no wire is caught between the electrical control box and the cover.**
  * **Make sure that no wire is caught between the indoor unit and the ceiling panel.**
  * **Note: In case Air purifier kit is removed must change new main P.C. board too.**

Electric control box cover

Screw

Wireless receiver and Dust sensor cable

Clamper

Cable

Pass the cable through the clamper as illustrated.

CN20

Air purifier cable   UART cable

CN40 CN10 CN30 CN521 J09 CN214

Dust sensor cable

Wireless receiver cable

For illustrative purpose the orientation of the indoor unit is not the actual orientation.

Remote controller address (A-B selection) setting

- When two or more wireless receiver are installed in a room, a unique address can be set for each wireless receiver to prevent interference.
- Address (A-B selection) must be changed on wireless remote controller.
- For the details of address change (A-B selection) on wireless remote controller, refer to the Operation manual.

Test run (Forced cooling operation)

Requirement

- Finish the forced cooling operation in a short time because it applies excessive strength to the air conditioner.

How to perform forced cooling operation

1. When TEMPORARY button is pushed for 10 seconds or more, "Pi!" sound is heard and the operation changes to a forced cooling operation. After approx. 3 minutes, a cooling operation starts forcedly. Check cool air starts blowing. If the operation does not start, check wiring again.

2. To stop a test operation, push TEMPORARY button once again (Approx. 1 Sec.).
  - Check wiring / piping of the indoor and outdoor unit in forced cooling operation.

TEMPORARY button
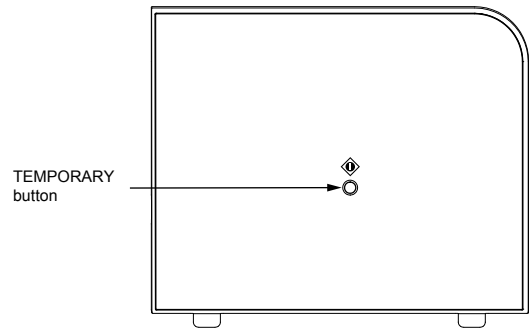
Preparation and check before use

1. Loading Batteries.
   - Remove the battery cover.
   - Insert 2 new batteries (R03 [AAA]) following the (+) and (-) positions.
2. Removing Batteries.
   - Remove the battery cover.
   - Remove the 2 used batteries.
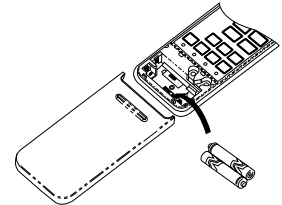
Batteries

- To replace the batteries, use two new batteries (R03 [AAA]).
- In normal use, the batteries will last about one year.
- Replace the batteries if there is no receiving beep from the indoor unit or when the air conditioner cannot be operated using the remote controller.
- To avoid malfunctions by battery leakage, remove the batteries when not using the remote controller for more than one month.
- Please dispose of the used batteries according to the local regulation.

Installing the remote controller holder

- Before you actually install the remote controller holder on a wall or pillar, check whether the remote controller signals can be received by the indoor unit.

Flat head wood screw

Remote control holder
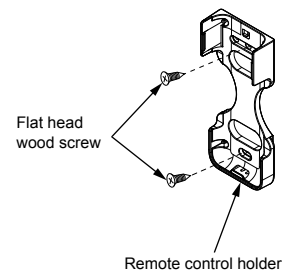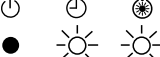
Mounting and removing the remote controller

- To mount the remote controller hold it parallel to the remote controller holder and push it in fully. To remove the remote controller slide the remote controller upwards and out from the holder.
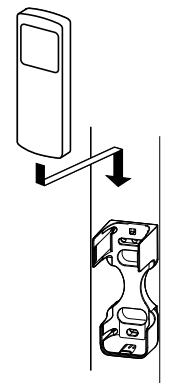
Self-diagnosis function and measures

- The following table shows a few examples. For details of indoor unit errors, refer to the Installation Manual of the indoor unit.

LED			Dust indicator display	Wired remote controller display	Possible cause	Measures
⏻ ●	🕑 ●	✳ ●	-	-	- Power is not turned on. - Incorrect connection between signal receiving unit and indoor unit	Check connections and reconnect wires correctly if necessary.
⏻ ☼ (blinking)	🕑 ●	✳ ●	-	E03	Loose connection between signal receiving unit and indoor unit	
⏻ ●	🕑 ●	✳ ☼ (blinking)	-	E04	Incorrect or loose connection between indoor unit and outdoor unit	
⏻ ☼ (blinking)	🕑 ●	✳ ☼ (blinking)	-	L03, L08, L09	- Indoor unit centre duplicated. - Indoor unit group/ Address unset. - Indoor unit capacity unset.	Check the indoor unit.
⏻ ●	🕑 ☼ (blinking)	✳ ☼ (blinking)	-	P10, P12	- Indoor unit overflow trouble. - Indoor unit fan motor trouble.	Check the indoor unit.
⏻ ○	🕑 ●	✳ ●	☼ Green (blinking)	F30	Air purifier trouble.	Check air purifier.
⏻ ○	🕑 ●	✳ ●	☼ Yellow (blinking)	⚠	Dust sensor trouble.	Check dust sensor.

LEDs and dust indicator display on the signal receiving unit ● : OFF ☼ : Blinking ○ : ON.

Notes on installing remote controller

- When using a wireless remote controller in the remote controller holder on a wall, turn on a fluorescent light and operate the remote controller at the installation position. Make sure that the air conditioner operates normally and then secure the remote controller holder on the wall.
- When installing a remote controller that senses room temperature with the sensor, avoid the following places.
  - A place exposed to direct cool air, warm air or direct sunlight.
  - A place subject to thermal effects.

Explanation to the customer

- After the installation work has been completed, execute a test run to check for normal operation and then hand the customer the Operation Manual and Installation Manual of the Air purifier kit.
- Explain how to use and maintain the Air purifier kit to the customer according to the Operation Manual of the Air purifier kit.

List of separately available products that cannot be used with the Air purifier kit.

The following separately available products cannot be used together with the Air purifier kit.

Product name	Model
Occupancy sensor kit	TCB-SIR41UYP-E